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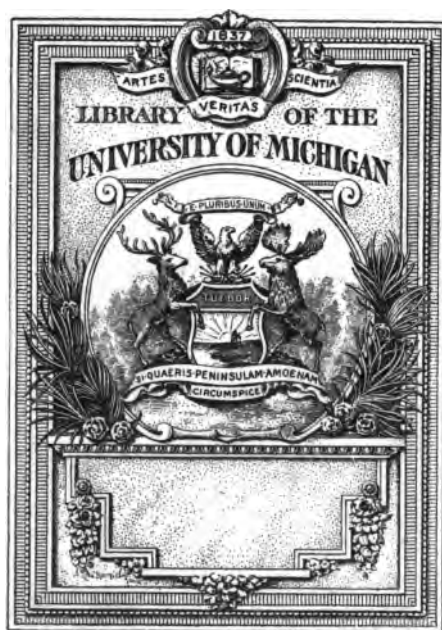
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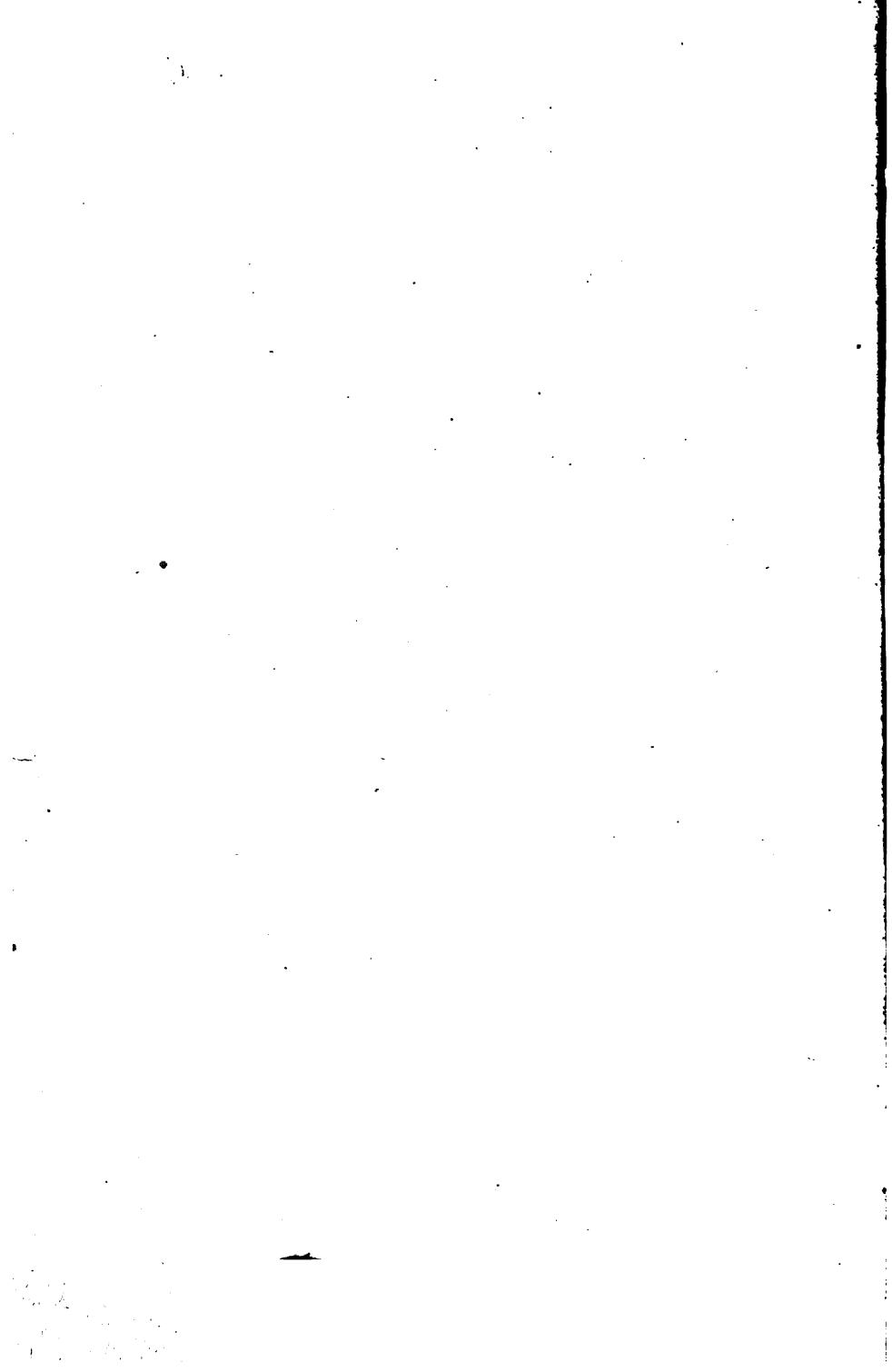
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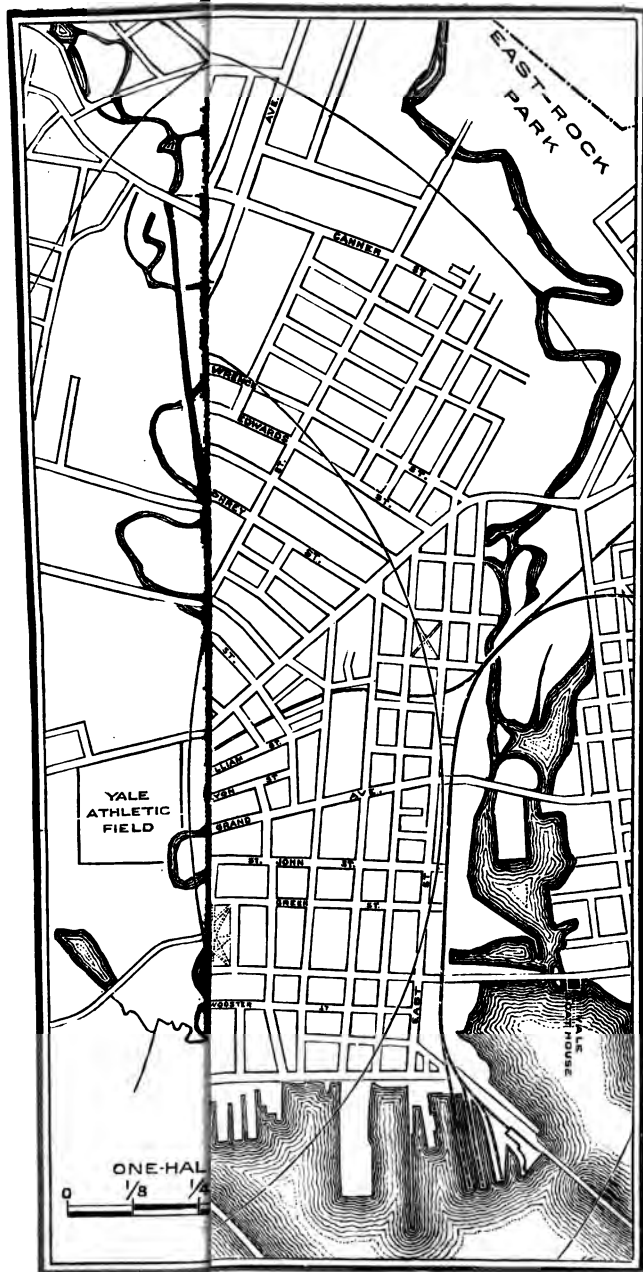
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1891-92





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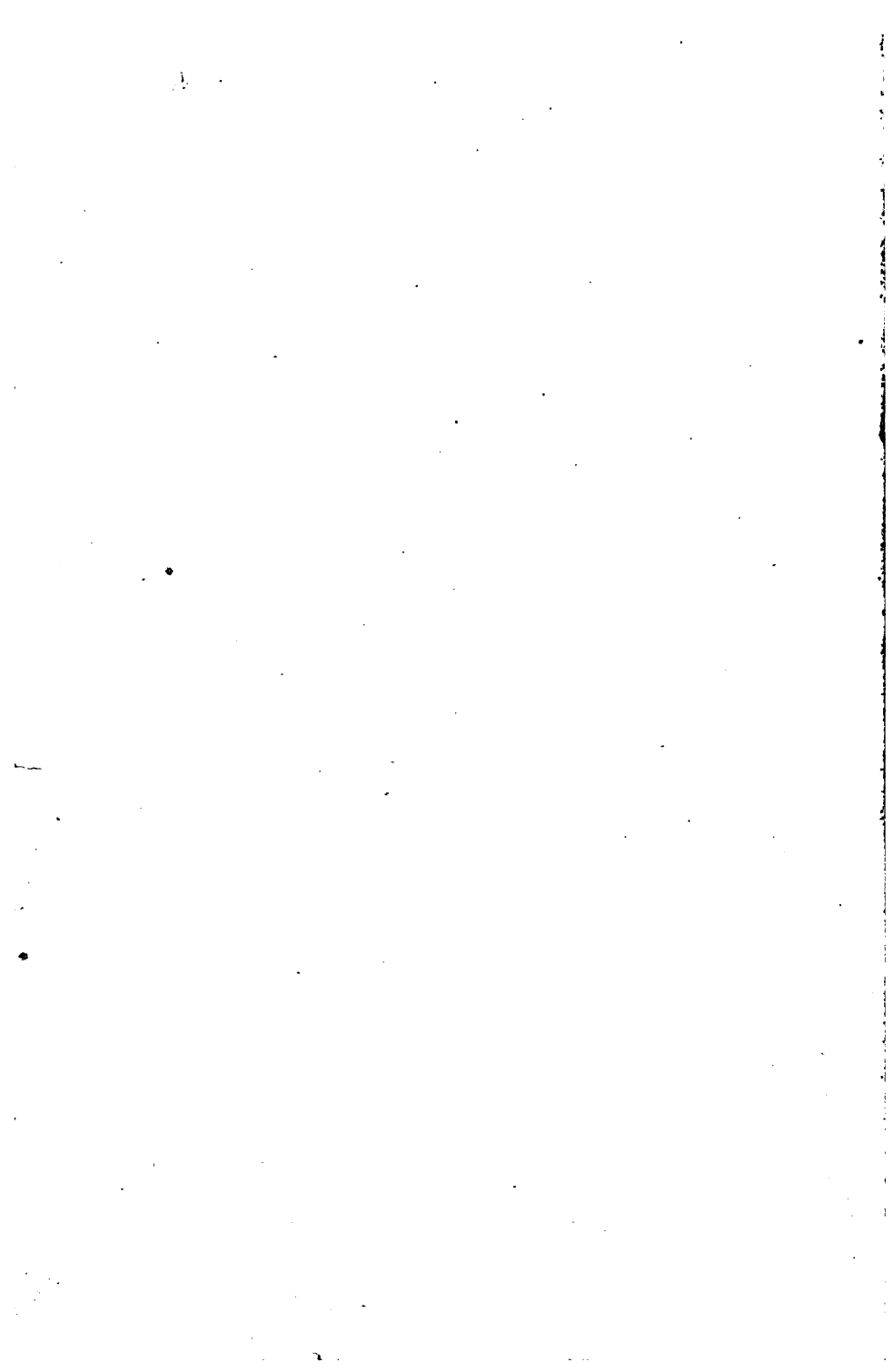
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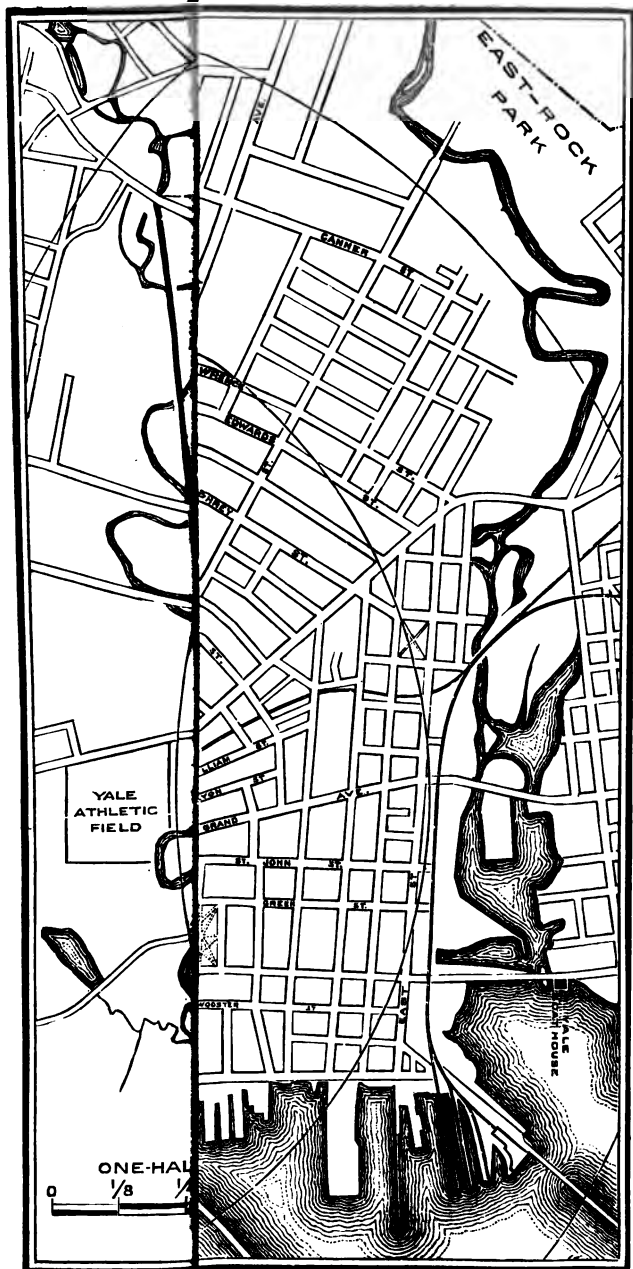
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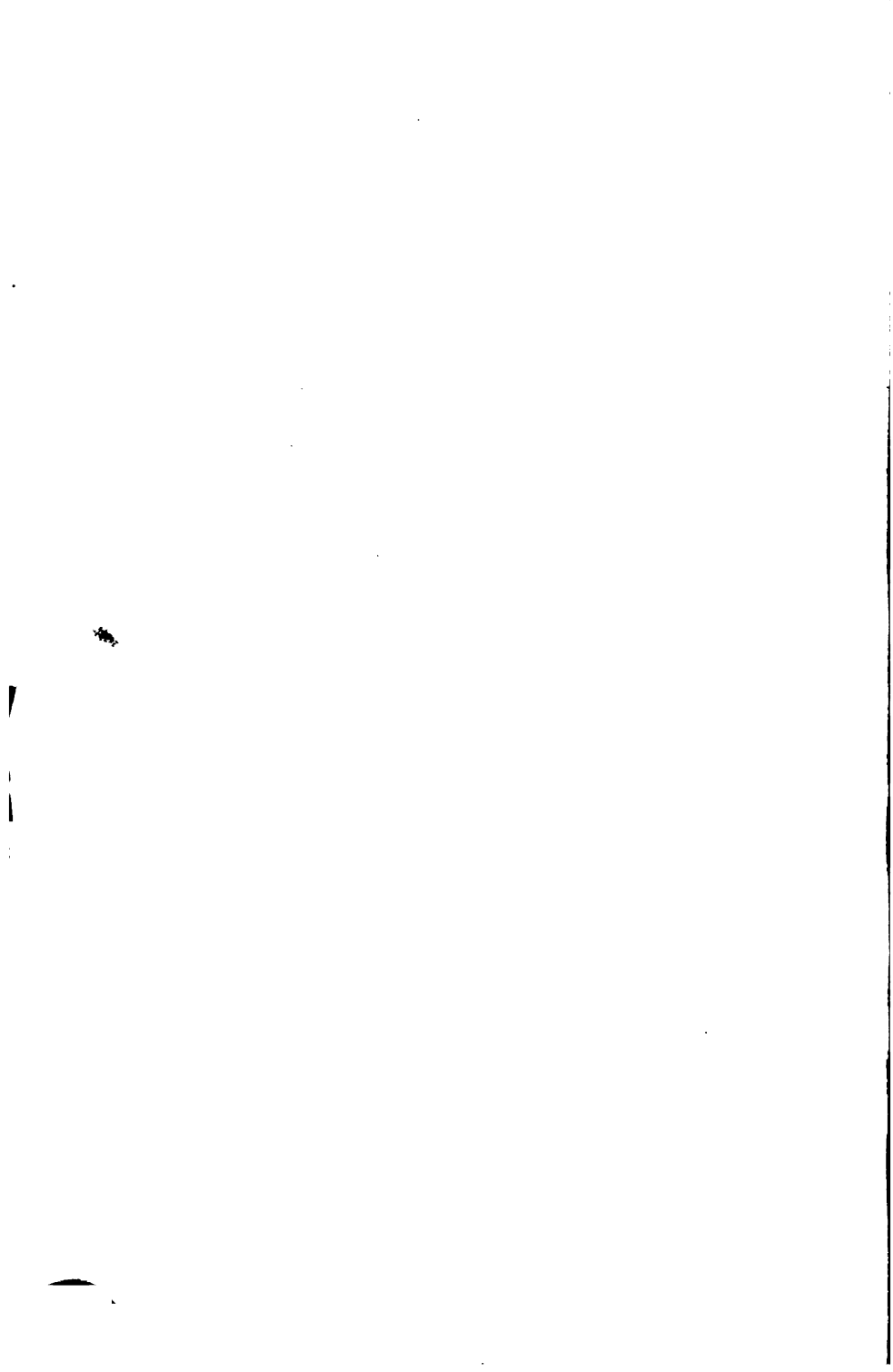
1891-92



NEW HAVEN

TUTTLE, MOREHOUSE & TAYLOR, PRINTERS

1891



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ABBREVIATIONS

A., Absent on leave; B., Sheffield Biological Laboratory; C., Old Chapel; D., Durfee Hall; E., East Divinity Hall; F., Farnam Hall; L., Lawrance Hall; LYC., Lyceum; N., North College; N. M., North Middle College; N. S. H., North Sheffield Hall; P., Peabody Museum; S., South College; S. H., Sheffield Hall; S. M., South Middle College; TR., Treasury Building; W., West Divinity Hall.

Upon the College Square, the rooms numbered from 1 to 32 are in South College; from 33 to 64 in South Middle College; from 65 to 96 in North Middle College; from 97 to 128 in North College; from 129 to 177 in Farnam Hall; from 178 to 185 in the Lyceum; from 186 to 200 in the Old Chapel; from 201 to 240 in Durfee Hall; from 241 to 282 in Lawrance Hall.

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1891

24 Sept.	Thursday	FIRST TERM begins.
1 Oct.	Thursday	School of the Fine Arts, term begins.
1 Oct.	Thursday	First Term, Medical School, begins.
16 Dec.	Wednesday	FIRST TERM ends.

Winter Vacation.

1892

7 Jan.	Thursday	SECOND TERM begins.
7 April	Thursday	Spring Term, Law School, begins.
7 April	Thursday	Junior Exhibition.
13 April	Wednesday	SPRING RECESS (in College) begins.
20 April	Wednesday	SPRING RECESS ends.
2 May	Monday	John A. Porter Prize Essays due.
6 May	Friday	Berkeley Scholarship Examination.
23 May	Monday	Woolsey Scholarship Examination begins.
23 May	Monday	Winthrop Prize Examination.
18 May	Wednesday	Anniversary of the Divinity School.
31 May	Tuesday	School of the Fine Arts, term ends.
26 June	Sunday	Baccalaureate Sermon.
27 June	Monday	Presentation for Academical Degrees.
27 June	Monday	Anniversary of the Sheffield Scientific School.
28 June	Tuesday	Anniversary Meeting of the Alumni.
28 June	Tuesday	Anniversary of the Medical School.
28 June	Tuesday	Anniversary of the Law School.
29 June	Wednesday	COMMENCEMENT.
30 June	Thursday	Examinations for admission begin.

Summer Vacation.

27 Sept.	Tuesday	Examinations for admission begin.
29 Sept.	Thursday	FIRST TERM begins.
1 Oct.	Saturday	School of the Fine Arts, term begins.
1 Oct.	Saturday	First Term, Medical School, begins.
21 Dec.	Wednesday	FIRST TERM ends.

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<i>Assistant in the Medical Clinic</i>	93 Howe st.
FREDERICK L. CHASE, PH.D.	
<i>Assistant Astronomer in the Observatory</i>	Observatory

JOHN WHITMORE, B.A.		
<i>Assistant in Physics in the Sloane Laboratory</i>	147 Bradley st.	
EDWARD L. BLISS, M.D.		
<i>Assistant in Chemistry</i>	371 Crown st.	
HARRY B. FERRIS, M.D.		
<i>Instructor in Anatomy</i>	111 York st.	
ALFRED J. WAKEMAN, PH.B.		
<i>Assistant in Analytical Chemistry</i>	14 S. H.	
PERCY F. SMITH, PH.D.		
<i>Instructor in Mathematics</i>	(46 N. S. H.) 56 Whalley av.	
GRAHAM LUSK, PH.D.		
<i>Instructor in Physiology</i>	28 Elm st.	
WILLIAM A. SETCHELL, PH.D.		
<i>Assistant in Biology</i>	70 N. M.	
EDWIN H. LOCKWOOD, PH.B.		
<i>Instructor in Drawing and Mechanism</i>	(57 N. S. H.) 145 College st.	
HANNS OERTEL, PH.D.		
<i>Instructor in German</i>	31 York sq.	
PHILIP E. BROWNING, B.A.		
<i>Assistant in Chemistry</i>	(Kent Laboratory) 115 Howe st.	
ARTHUR C. ALEXANDER, PH.B.		
<i>Assistant in Physics</i>	(57 N. S. H.) 145 College st.	
LANGDON FROTHINGHAM, M.D.V.		
<i>Assistant in Veterinary Science and Bacteriology</i>	71 B.	
HERBERT A. SMITH, B.A.		
<i>Assistant in English</i>	77 W.	
FRANK S. MEARA, B.A.		
<i>Assistant in Physiological Chemistry</i>	70 N. M.	
GEORGE L. AMERMAN, B.A.		
<i>Assistant in Physiological Chemistry</i>	137 Wall st.	
HENRY L. WHEELER, PH.B.		
<i>Assistant in Analytical Chemistry</i>	126 Wall st.	
HIPPOLYTE W. GRUENER, B.A.		
<i>Assistant in the Kent Chemical Laboratory</i>	39 Whiting st.	
ROBERT O. MOODY, B.S.		
<i>Instructor in Histology</i>	E. Grand av.	
GEORGE P. STARKWEATHER, PH.B.		
<i>Assistant in Drawing and Applied Mechanics</i>	N. H. Hospital	
GEORGE W. ANDREW, LL.B.		
<i>Assistant Librarian of the Law School</i>	19 Court House	

GRADUATE FELLOWS AND SCHOLARS

JOHN WHITMORE, B.A., <i>John Sloane Fellow</i>	147 Bradley st.
CARLETON L. BROWNSON, B.A., <i>Soldiers' Memorial Fellow</i>	Athens, Greece
GERALD H. BEARD, B.A., B.D., <i>Foote Scholar</i>	415 George st.
HERBERT A. SMITH, B.A., <i>Douglas Fellow</i>	77 w.
CHARLES B. BLISS, B.A., <i>Larned Scholar, and Berkeley Scholar</i>	22 Whalley av.
ARTHUR W. COLTON, B.A., <i>Foote Scholar</i>	56 w.
GEORGE L. AMERMAN, B.A., <i>Larned and Clark Scholar</i>	137 Wall st.
WALTER I. LOWE, B.A., <i>Foote Scholar</i>	22 Whalley av.
CURTIS C. BUSHNELL, B.A., <i>Bristed Scholar, and Clark Scholar</i>	19 Perkins st.
JOSEPH BOWDEN, JR., B.A., <i>Foote Scholar</i>	122 Rosette st.
EDGAR W. DANNER, B.A., <i>Silliman Fellow</i>	1161 Chapel st.
HIPPOLYTE W. GRUENER, B.A., <i>Macy Scholar</i>	39 Whiting st.
LAFAYETTE B. MENDEL, B.A., <i>Larned Scholar</i>	22 Trumbull st.

OTHER OFFICERS

LOUIS STADTMÜLLER, PH.B., <i>Clerk in the Sheffield Scientific School</i>	(3 s. h.) 77 Whitney av.
FRANK E. HOTCHKISS, <i>Superintendent of Grounds and Buildings</i>	90 High st.
WILLABE HASKELL, PH.D., <i>Superintendent of the Reading Room</i>	(Reading Room) 96 Dwight st.
ANNIE E. HUTCHINS, <i>Assistant in the Library</i>	(Library) 29 Home pl.
J. PRESTON STRONG, <i>Clerk in the Treasurer's Office</i>	(5 TR.) 522 Howard av.
GEORGE H. BUTLER, <i>Clerk in the Treasurer's Office</i>	(5 TR.) 98 Howe st.
WILLIAM E. ROWLAND, <i>Clerk in the Treasurer's Office</i>	(5 TR.) 116 Wooster st.
CLIFFORD W. BARNES, B.A., <i>Superintendent of Dwight Hall, and Secretary of the Yale Young Men's Christian Association</i>	Dwight Hall
HENRY R. GRUENER, <i>Assistant in the Library</i>	(Library) 39 Whiting st.

GOVERNMENT OF THE UNIVERSITY

The legal designation of the Corporation is "THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN," or "YALE UNIVERSITY;" the powers of this body have been granted and confirmed in the following order.

THE COLLEGIATE SCHOOL OF CONNECTICUT, subsequently named YALE COLLEGE, and now called YALE UNIVERSITY, was founded in the summer of 1701 by the combined action of a few of the ministers in Connecticut, who obtained in October of that year a Charter from the Colony Legislature, which runs as follows :—

AN ACT FOR LIBERTY TO ERECT A COLLEGIATE SCHOOL.

WHEREAS several well disposed, and Publick spirited Persons of their sincere regard to & Zeal for upholding & Propagating of the Christian Protestant Religion by a succession of Learned & Orthodox men have expressed by Petition their earnest desires that full Liberty and Priveledge be granted unto certain Undertakers for the founding, suitably endowing & ordering a Collegiate School within his Maj^{ties} Colony of Connecticut wherin Youth may be instructed in the Arts & Sciences who thorough the blessing of Almighty God may be fitted for Publick employment both in Church & Civil State. To the intent therefore that all due incouragement be Given to such Pious Resolutions and that so necessary & Religious an undertakeing may be sett forward, supported and well managed :—

BE IT ENACTED by the Govern^r & Company of the s^d Colony of Connecticut in General Court now Assembled, And it is enacted & ordained by the Authority of the same that there be & hereby is full Liberty, Right and Priveledge Granted unto the Reverend M^r. James Noyes of Stonnington, M^r. Israel Chauncey of Stratford, M^r. Thomas Buckingham of Saybrook, M^r. Abraham Pierson of Kennelworth, M^r. Samuel Mather of Windsor, M^r. Samuel Andrew of Milford, M^r. Timothy Woodbridge of Hartford, M^r. James Pierpont of New Haven, M^r. Noadiah Russel of Middletown, M^r. Joseph Webb of Fairfield, being Rev^d Ministers of the Gospel & inhabitants within y^e s^d Colony,

proposed to stand as Trustees, Partners or Undertakers for the s^d School, to them and their successors, To ERĒCT, form, direct, order, establish, improve and att all times in all suitable wayes for the future to encourage the s^d School in such convenient place or Places, & in such form & manner & under such order & Rules as to them shall seem meet & most conducive to the afores^d end thereof, so as such Rules or Orders be not repugnant to the Laws of the Civil Govern^t, as also to employ the moneys or any other estate which shall be Granted by this Court or otherwise Contributed to that use according to their discretion for the benefit of the s^d Collegiate School from time to time & att all times henceforward.

And be it further ENACTED by the Authority afores^d that the before named Trustees, Partners or Undertakers together with such others as they shall associate to themselves (not exceeding the number of Eleven, or att any time being less than Seven, Provided also that Persons nominated or associated from time to time to fill up s^d number be ministers of the gospel inhabiting within this Colony & above the Age of forty years) or the major Part of them, the s^d Mr. James Noyes, [etc.] undertakers, & of such Persons so chosen & associated as aboves^d att any time hereafter, HAVE and shall have henceforward the oversight, full & compleat Right, Liberty, power & Priveledge to furnish, direct, manage, order, improve & encourage from time to time & in all times hereafter the s^d Collegiate School so Erected & formed by them in such ways, orders & manner & by such Persons, Rector or Master and officers appointed by them, as shall according to their best discretion be most conducive to attaine the afores^d mentioned end thereof. . . .

It is also further Enacted by the Authority afores^d that the s^d Undertakers & Partners & their successors be & hereby are further empowered to have, accept, acquire, purchase or otherwise lawfully enter upon Any Lands, Tenements & Hereditam^{ts} to the use of the s^d School, not exceeding the value of five hundred Pounds p^r Anⁿ, & any Goods, Chattels, Sum or Sums of money whatsoever as have heretofore already been Granted, bestowed, bequeathed or given, or as from time to time shall be freely given, bequeathed, devised or settled by any Person or Persons whatsoever upon & to & for the use of y^e s^d School towards the founding, erecting or endowing the same, & to sue for, Recover & receiv all such Gifts, Legacies, bequests, annuities, Rents, issues & profits arising therefrom & to imploy the same accordingly, & out of y^e estate, Revenues, Rents, profits, incoms accruing & belonging to s^d School to support & pay as the s^d Undertakers shall agree & see cause, the s^d Rector or Master, Tutors, Ushers or other officers their Respective annual Salaries or Allowances. As also for the encouragem^t of the Students to grant degrees or Licences as they or those deputed by them shall see cause to order & appoint.

Under this Charter the Collegiate School was begun in November, 1701, at Saybrook, where it continued until its removal to New Haven, in October, 1716. In September, 1718, the name of YALE COLLEGE was given by the Trustees to the School, in honor of the benefactions of ELIHU YALE, of London, lately Governor of the East India Company's settlement at Madras.

In 1723 an "ACT IN EXPLANATION OF AND ADDITION TO THE ACT FOR ERECTING A COLLEGIATE SCHOOL" was passed by the General Assembly, with the following provisions:—

WHEREAS Pursuant to the Powers and Priviledges granted to Certain Trustees for Erecting a Collegiate School in this Colony Entituled an Act for a Collegiate School, the Said Trustees have Erected the said School in the Town of New-Haven which School is now known by the Name of Yale Colledge; And Whereas it appears to this Assembly that an Explanation and Enlargement of the powers and priviledges granted by Said Act is Necessary for the Carrying on the Affairs of the Said Colledge, for want of which it has Laboured under great difficulties very much to the prevention of that Order and good Education which is to be desired there :

Bee it therefore Enacted by the Governour, Council and Representatives in Generall Court assembled and by the Authority of the Same that the Said Act which provides that the Number of the Said Trustees be not under Seven nor above Eleven is not to be Understood or Taken so as to be restrictive of the power of the Said Trustees Never to Choose any person to be a Trustee, when there is of Such persons as have been Chosen and Acted as Trustees Eleven persons Living in the Colony or Elsewhere, but that in Case any person so Chosen be by Providence Incapacitated from attending that Service or shall himself decline the Same thro' the Necessity of his own Affairs or for any other such Reason as he shall Judge requisite, the Trustees in any of their Meetings Lawfully Called may be Understood to have and it is hereby Enacted and declared that they shall be Taken to have full power by the Majority of Such Meeting to proceed to the Choice of Another Trustee in the Room of any such person. And it is hereby further declared and Enacted to be the True Intent and Meaning of the Act afores^d that the said Trustees shall be Impowered and they are hereby declared to have power to Meet Together for Considering, Advising about and Resolving upon all Matters belonging to the Trust of the Said Colledge committed unto them as afores^d and to Agree and Conclude, Order and determine Concerning them by the Majority of the

Said Meeting, and by the same Majority to Choose and Appoint a Clerk who shall, in a fair book prepared for that End, Register and Carefully preserve the Acts of all such Meetings.

And WHEREAS it has been doubted what Number of the Said Trustees may be Lookt upon as a Sufficient or full Meeting, Inasmuch as there is not in the afores^d Act any Express mention made of any Meeting of the said Trustees ; It is therefore to prevent all Scruple of that kind for the future hereby provided and declared that due Notice being given to the Trustees by Consent of any three of them of a Meeting of the Trustees desired at any Time or place, any Seven or more of the Trustees present at such Time and place shall be Esteemed a full Meeting. And it is hereby declared and Enacted that in all such Meetings, so Called, or Otherwise as the said Trustees in any such Meeting shall agree, all affairs under the Care of the said Trustees shall be determined by the majority of such Meeting.

And WHEREAS it has been found Inconvenient that in the Election of Persons to be Trustees, the Trustees Election by the afores^d Act should be Limited and restrained so as that the Person who shall be Chosen must Necessarily be fourty Years of age ; It is hereby declared and Enacted that for the future the said Trustees in any Election of a person into that Trust shall not be Esteemed or held Obliged by said Act to Choose such a person as shall be above fourty Years of Age, but may Choose such a person otherwise Qualified According to said Act, Provided he is thirty Years of Age. And it is further hereby Allowed, Enacted, Granted and Provided that whosoever shall be Chosen and made a Rector of the said Colledge shall by Virtue thereof become a Trustee of the same and be so Esteemed and Taken during his Continuance in the said Rectorship.

In 1745 a thoroughly revised Charter was granted by the Assembly ; the provisions of permanent interest are as follows :—

An ACT for the more full and complete Establishment of YALE COLLEGE in NEW HAVEN, and for enlarging the Powers and Privileges thereof.

WHEREAS upon the Petition of several well-disposed and public-spirited Persons expressing their desire that full Liberty and Privilege might be granted unto Certain Undertakers for the founding, suitably endowing and ordering a *Collegiate School*, within this Colony, wherein Youth might be instructed in the Arts and Sciences, the Governor and Company of the said Colony in General Court assembled at *New Haven*, on the Ninth Day of October, in the Year of our Lord

1701, Granted unto the Rev'd Messrs. *James Noyes* [etc.], who were proposed to stand as Trustees, Partners or Undertakers for the Society, and to their Successors, full Liberty, Right and Privilege to erect, form, direct, order, establish, improve, and at all Times in all suitable Ways to encourage the said School in some convenient Place in this Colony, and granted sundry Powers and Privileges for the attaining the End aforesaid ;

And Whereas the said Trustees, Partners or Undertakers in pursuance of the aforesaid Grant, Liberty and License, founded a *Collegiate School* at *New Haven*, known by the Name of YALE COLLEGE, which has received the favorable Benefactions of many Liberal and piously disposed Persons, and under the Blessing of Almighty God has trained up many worthy Persons for the Service of God in the State as well as in the Church ;

And Whereas the General Court of this Colony assembled at *New Haven*, the Tenth Day of October, in the Year of our Lord 1723, did explain and enlarge the aforesaid Powers and Privileges granted to the aforesaid Partners, Trustees or Undertakers and their Successors, for the Purpose aforesaid ; as by the respective Acts, reference thereto being had, more fully and at large may appear ;

And Whereas the Rev'd Messrs. *Thomas Clap, Samuel Whitman, Jared Eliot, Ebenezer Williams, Jonathan Marsh, Samuel Cooke, Samuel Whittelsey, Joseph Noyes, Anthony Stoddard, Benjamin Lord, and Daniel Wadsworth*, the present Trustees, Partners and Undertakers of the said School, and Successors of those beforementioned, have petitioned, that the said School, with all the Rights, Powers, Privileges and Interests thereof, may be confirmed, and that such other additional Powers and Privileges may be granted as shall be necessary for the Ordering and Managing the said School in the most advantageous and beneficial Manner for the promoting all good Literature in the present and succeeding Generations :

Therefore,

THE GOVERNOR and COMPANY of his Majesty's said English Colony of *Connecticut* in General Court assembled, this Ninth Day of *May*, in the Year of our Lord 1745, enact, ordain, and declare, and by these Presents it is enacted, ordained and declared—

That the said *Thomas Clap* [etc.], shall be an *Incorporate Society* or *Body Corporate and Politic*, and shall hereafter be called and known by the name of THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN, and that by the same Name they and their Successors shall and may have perpetual Succession, and shall and may be Persons in the Law capable to plead and be impleaded, defend and be defended, and answer and be answered unto ; and also to have, take, possess, acquire, purchase or otherwise receive Lands, Tenements, Hereditaments, Goods, Chattels, or other Estates, and the same Lands, Tenements,

Hereditaments, Goods, Chattels, or other Estates to grant, demise, lease, use, manage or improve for the Good and benefit of the said *College*, according to the Tenor of the Donation, and their Discretion.

That all Gifts, Grants, Bequests, and Donations of Lands, Tenements, or Hereditaments, of Goods and Chattels heretofore made to or for the Use, Benefit and Advantage of the *Collegiate School* aforesaid, whether the same be expressed to be made to the President or Rector, and to the rest of the Incorporate Society of *Yale College*, or to the Trustees or Undertakers of the *Collegiate School* in *New Haven*, or to the Trustees by any other Name, Style or Title whatsoever, whereby it may be clearly known and understood that the true Intent and Design of such Gifts, Grants, Bequests and Donations, was to or for the Use, Benefit and Advantage of the Collegiate School aforesaid, and to be under the Care and Disposal of the Governors thereof, shall be confirmed, and the same hereby are confirmed, and shall be and remain to, and be vested in the President and Fellows of the *College* aforesaid, and their Successors, as to the true and lawful Successors of the original Grantees.

That the said PRESIDENT AND FELLOWS and their Successors shall and may hereafter have a common Seal, to serve and use for all Causes, Matters and Affairs of them and their Successors, and the same Seal to alter, break and make new as they shall think fit.

That the said THOMAS CLAP shall be, and he is hereby established the present PRESIDENT, and the said *Samuel Whitman*, [etc.] shall be, and they are hereby established the present FELLOWS of the said College, and that they and their Successors shall continue in their respective Places during Life, or until they or either of them shall resign, or be removed, or displaced, as in this Act is hereafter expressed.

That there shall be a General Meeting of the *President and Fellows* of said *College*, in the College Library on the second Wednesday of September annually, or at any other Time and Place which they shall see Cause to appoint, to consult, advise and act in and about the Affairs and Business of the said College; and that on any special Emergency, the President and two of the Fellows, or any four of the Fellows, may appoint a Meeting of the said College, provided they give Notice thereof to the Rest by Letters sent and Left with them, or at the Places of their respective Abode, five Days before such Meeting; and that the President and six Fellows, or in Case of the Death, Absence, or Incapacity of the President, seven Fellows, convened as aforesaid (in which Case the eldest Fellow shall preside), shall be deemed a Meeting of the President and Fellows of said College, and that in all the said Meetings, the Major Vote of the Members present shall be deemed the Act of the Whole, and where an Equivote happens, the President shall have a casting Vote.

That the President and Fellows of the said College and their Successors, in any of their Meetings assembled as aforesaid, shall and may

from Time to Time, as Occasion shall require, elect and appoint a President or Fellow in the Room and Place of any President or Fellow who shall die, resign, or be removed from his Office, Place or Trust (whom the said Governor and Company hereby declare, for any Misdemeanor, Unfaithfulness, Default or Incapacity, shall be removable by the President and Fellows of the said College; Six of them, at least, concurring in such Act); and shall have Power to appoint a Scribe or Register, a Treasurer, Tutors, Professors, Steward and all such other Officers and Servants, usually appointed in Colleges or Universities, as they shall find necessary and think fit to appoint for the promoting good Literature, and the well ordering and managing the Affairs of said College; and them or any of them, at their Discretion, to remove; and to prescribe and administer such Forms of Oaths (not being contrary to the Laws of England or of this Colony) as they shall think proper, to be administered to all the Officers and Instructors of the said College, or to such and so many of them as they shall think proper, for the faithful Execution of their respective Places, Offices and Trusts.

That the President and Fellows shall have the Government, Care and Management of the said College and all the Matters and Affairs thereunto belonging, and shall have Power from Time to Time, as Occasion shall require, to make, ordain and establish all such wholesome and reasonable Laws, Rules and Ordinances, not repugnant to the Laws of England, nor the Laws of this Colony, as they shall think fit and proper for the Instruction and Education of the Students, and Ordering, Governing, Ruling and Managing the said College, and all Matters, Affairs, and Things thereunto belonging, and the same to Repeal and alter as they shall think fit.

That the President of said College, with the Consent of the Fellows, shall have Power to give and confer all such Honors, Degrees or Licenses as are usually given in Colleges or Universities, upon such as they shall think worthy thereof.

In 1792 a grant of money from the State of Connecticut was received, upon the condition that certain State officials should become members of the Board of Fellows, as below expressed:—

In case this grant shall be accepted, in manner as hereinafter provided, the Governor, Lieutenant Governor, and six senior assistants in the Council* of this State, for the time being, shall ever hereafter, by virtue of their said offices, be trustees or fellows of said college; and shall together with the present President and Fellows of said College, and their successors, constitute one corporation, by the name and style

* Changed in 1819 to the six senior senators.

mentioned in the charter of said College; and shall have and enjoy the same powers, privileges, and authority, in as full and ample a manner, as though they had been expressly named and included in said charter; And that in case of vacancy, by the death, or resignation, or in any other way, of any of the present Fellows of said College, and their successors, every such vacancy shall forever hereafter be supplied by them, and their successors, by election, in the same manner as though this act had never passed.

In the new Constitution of the State, adopted in 1818, the privileges conferred by the Charter were reaffirmed, as follows :—

ARTICLE VIII, SECT. I.

The charter of Yale College, as modified by agreement with the Corporation thereof, in pursuance of an Act of the General Assembly, passed in May, 1792, is hereby confirmed.

In 1872, at the request of the Corporation, an Act was passed by the General Assembly, providing (as follows) for the substitution of graduates in the place of the six senators among the Fellows :—

SECTION 1.—All graduates of the first degree, of five or more years' standing, in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, on the day next preceding the public commencement day of said College, in the year of our Lord 1872, cast their votes, under such regulations as the President and Fellows may prescribe, for six persons to be chosen from among such graduates; and the six persons who shall be found to be elected by a plurality of the votes cast, shall be the Fellows of Yale College in the stead of the six senior senators of the State, and shall have all the rights, duties, and privileges as Fellows which are now by law conferred upon said senators. In case of an equality of votes between two or more candidates, the person who shall hold the said office of Fellow shall be designated by lot from among the persons receiving such equality of votes.

SECTION 2.—The Fellows thus elected shall enroll themselves by lot in six classes, one holding the office for six years, another for five years, another for four years, another for three years, another for two years, and another for one year, eligible for re-election; and every year as a vacancy occurs, all graduates of the first degree, of five or more years' standing

in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, upon the day next preceding commencement day, in the manner heretofore prescribed, elect by a plurality of votes a person to fill the vacancy, and hold the office of Fellow for a period of six years, eligible for re-election; and so whenever a vacancy shall occur from death, resignation, or any other cause, such graduates may elect a person at the next commencement to fill the office of Fellow for the remainder of the term in which a vacancy has occurred. The official year of such Fellows shall end with the day next preceding each commencement day.

In January, 1887, an Act passed the General Assembly of the State, authorizing the use of the title "YALE UNIVERSITY" by the President and Fellows of Yale College, and providing that gifts to, contracts with, conveyances to or by, and other acts affecting said Corporation by either of the names specified shall be valid.

DEPARTMENTS OF INSTRUCTION

The courses of study offered in the University are comprehended in four Departments, under the control of the Corporation, each Department being also under the administration of a distinct Faculty of instruction. The Departments are as follows :—

THE DEPARTMENT OF PHILOSOPHY AND THE ARTS ;

THE DEPARTMENT OF THEOLOGY ;

THE DEPARTMENT OF MEDICINE ;

THE DEPARTMENT OF LAW.

Under the first-named Department are included two separately organized sections in which instruction for undergraduates is provided, viz :—

THE ACADEMICAL DEPARTMENT, and

THE SHEFFIELD SCIENTIFIC SCHOOL ;

also, THE SCHOOL OF THE FINE ARTS, with a special organization ; and The Courses for GRADUATE INSTRUCTION, under the combined Faculty of the Department.

It is to be understood that the courses of instruction above described are open to persons of the male sex only, except when both sexes are specifically included.

The LIBRARY, the PEABODY MUSEUM OF NATURAL HISTORY, and the OBSERVATORY are severally organized independently of the special Departments, and are designed to contribute, in their appropriate spheres, to the instruction and advancement of the whole institution.

ACADEMICAL DEPARTMENT

(YALE COLLEGE)

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
- REV. NOAH PORTER, D.D., LL.D., *Professor of Moral Philosophy and Metaphysics*
- JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*
- EDWARD J. PHELPS, LL.D., *Professor of Law*
- HUBERT A. NEWTON, LL.D., *Professor of Mathematics*
- ARTHUR M. WHEELER, M.A., *Professor of History*
- J. WILLARD GIBBS, PH.D., *Professor of Mathematical Physics*
- ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*
- EUGENE L. RICHARDS, M.A., *Professor of Mathematics*
- WILLIAM I. KNAPP, PH.D., LL.D., *Professor of Modern Languages*
- FRANKLIN B. DEXTER, M.A., *Registrar*
- TRACY PECK, M.A., *Professor of Latin*
- REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*
- WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*
- REV. GEORGE T. LADD, D.D., *Professor of Mental and Moral Philosophy*
- CHARLES H. SMITH, M.A., *Professor of American History*
- HENRY P. WRIGHT, PH.D., *Professor of Latin, and Dean*
- HENRY A. BEERS, M.A., *Professor of English Literature*
- EUGÈNE BERGERON, B.A., *Instructor in French*
- EDWARD S. DANA, PH.D., *Professor of Physics*
- THOMAS D. SEYMOUR, M.A., *Professor of Greek*
- FRANK A. GOOCH, PH.D., *Professor of Chemistry*
- ALBERT S. COOK, PH.D., L.H.D., *Professor of English.*
- WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*
- ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*
- GEORGE B. ADAMS, PH.D., *Professor of History*
- EDWARD P. MORRIS, M.A., *Professor of Latin*
- EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*
- ARTHUR T. HADLEY, M.A., *Professor of Political Economy*
- THOMAS D. GOODELL, PH.D., *Assistant Professor of Greek*
- ARTHUR H. PALMER, M.A., *Professor of German*

HORATIO M. REYNOLDS, B.A., *Assistant Professor of Greek*
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*
E. HERSHEY SNEATH, PH.D., *Instructor in Philosophy*
EDWARD T. McLAUGHLIN, B.A., *Assistant Professor of English*
GUSTAV F. GRUENER, B.A., *Tutor in German*
HARLEY F. ROBERTS, M.A., *Instructor in Greek*
W. IRVING HUNT, B.A., *Tutor in Greek*
FRANK G. MOORE, PH.D., *Tutor in Latin*
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*
CHARLES A. MOORE, B.A., *Tutor in Latin*
JOHN C. SCHWAB, PH.D., *Instructor in Political Economy*
EDWARD CAPPS, PH.D., *Tutor in Latin*
IRVING FISHER, PH.D., *Tutor in Mathematics*

OTHER INSTRUCTORS

REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Comparative Philology
and Sanskrit*
MARK BAILEY, M.A., *Instructor in Elocution*
GUSTAVE J. STÖCKEL, Mus.D., *Professor of Music*
WILLIAM C. ROBINSON, LL.D., *Professor of Law*
DANIEL C. EATON, M.A., *Professor of Botany*
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*
JOHN H. NIEMEYER, M.A., *Professor of Drawing*
RALPH O. WILLIAMS, B.A., *Assistant in English*
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*
CHARLES E. BEECHER, PH.D., *Instructor in Geology*
JAY W. SEAVER, M.D., *Instructor in Gymnastics and Practical Hygiene*
FRANK K. SANDERS, PH.D., *Instructor in the Semitic Languages*
OLAUS DAHL, PH.D., *Instructor in Swedish and Danish*
HANNS OERTEL, PH.D., *Instructor in German*

From the date of the original Charter, in 1701, a course of instruction leading to the degree of Bachelor of Arts has been continuously offered at the College; at first only three years of undergraduate study were required, but before 1710, a four years' course was provided, which has been since maintained.

Until 1813, when a Medical School was organized, no other course of study for a degree was marked out at Yale College ; but with the incorporation of the Medical Institution (as it was originally styled) the older Department began to be designated the Academical Institution (or Department), and has continued to be so designated until at length, with the growth of other Schools about it and the expansion of the whole into Yale University, the original title of Yale College has again come to be applied distinctively to this Department.

TERMS OF ADMISSION

ALL CANDIDATES FOR ADMISSION to the Freshman Class are examined in the following books and subjects ; certificates of standing elsewhere are not accepted in place of this examination :—

1. Latin Grammar.
 2. Caesar—Gallic War, books i-iv.
 3. Cicero—Orations against Catiline and for Archias, and, in addition, either the Milo, or the Manilian Law, or the Cato Major, or the Marcellus and the 14th Philippic.
 4. Vergil—Bucolics, and first six books of the Aeneid, including Prosody.
 5. Ovid—Metamorphoses, translation at sight.
 6. The translation, at sight, into simple and idiomatic English, of passages from prose Latin.
 7. The translation into Latin of connected passages of English prose. [As special importance is given to this part of the examination, it is suggested to teachers that they connect exercises in making Latin, both oral and written, with all the Latin studies of the preparatory course.]
 8. Roman History, to the death of Augustus.
-
9. Greek Grammar.
 10. Xenophon—Anabasis, four books.
 11. Homer—Iliad, three books, with Prosody.
 12. The translation, at sight, into simple and idiomatic English, of a passage from some work of Xenophon.
 13. The translation into Greek of connected passages of English prose, employing the vocabulary and idioms of the first four books of Xenophon's Anabasis.
 14. Greek History.

15. Higher Arithmetic—including the metric system of weights and measures.

16. Algebra—so much as is included in Loomis's Treatise, up to the chapter on Logarithms.

17. Plane Geometry.

18. French or German—so far as to translate at sight easy prose into English, and also to translate easy English exercises into French or German, the candidate being at liberty to decide for himself in which of the two languages he shall be examined.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations, that is, either in June or in September, of the first year; and at this preliminary examination each candidate must submit a definite statement from his principal instructor of the subjects which he is authorized to offer. No candidate will be allowed to offer French, German, Geometry, the translation at sight of prose Latin, or of prose Greek, at a preliminary examination; and at the close of such an examination, no certificate of partial admission will be furnished, unless at least six subjects have been satisfactorily passed.

THE REGULAR EXAMINATION FOR ADMISSION to College is held at Alumni Hall, New Haven, on Thursday, Friday, and Saturday after Commencement (June 30, July 1, 2, 1892); *attendance is required at the opening of the examinations, at 9 A. M. on Thursday*, and the sessions will close at noon on Saturday. The examination is wholly in writing; a set of papers recently given will be sent on application to the Registrar.

In 1892 examinations (beginning on Thursday, June 30, at 9 A. M., and closing Saturday noon) for admission to the Freshman Class (but not to higher classes) will also be held in Concord and Exeter, N. H., Andover, Mass., Norwich, Conn., New York City, Albany, Buffalo, Cleveland, Cincinnati, Chicago, and San Francisco, at places to be announced in the local newspapers of the day previous. Candidates who propose to be present elsewhere than at New Haven are requested to send their names to

the Registrar before June 15. A fee of five dollars (payable at the opening of the sessions) is charged for admission to examinations outside of New Haven. The College is also prepared to hold an examination, at the above-named time, in any city or at any school where the number of candidates and the distance from other places of examination may warrant it; applications for this purpose must be sent to the Registrar before May 15.

A second examination is held, *in New Haven only*, at the beginning of the College year, on Tuesday and Wednesday (September 27, 28, 1892); candidates for this examination must be present at Alumni Hall at 9 A. M. on Tuesday.

Persons applying for admission to any of the classes in College during the course of the College year (from September to June) must first obtain from the Faculty permission to be examined, and pay to the Treasurer a fee of ten dollars.

In general, examinations for admission to the next Freshman Class can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

ADVANCED STANDING.—All candidates for advanced standing, *whether from other Colleges or not*, are examined, in addition to the preparatory studies, in those studies already pursued (see pp. 35 ff.) by the class which they wish to enter. In the several languages, for the particular books studied by the class, equivalent amounts from other books may be offered. Certificates of standing elsewhere cannot be accepted in place of these examinations, although they may be taken into account as collateral evidence of fitness for admission.

Bachelors of Arts or of Philosophy of any institution may join the Senior Class (without examination and without becoming candidates for the Bachelor's degree), as candidates for the degree of Doctor of Philosophy after three years' study.

No one can be admitted to the Senior Class after the beginning of the second term.

AGE—No one can be admitted to the Freshman Class till he has completed his fifteenth year, nor to an advanced standing without a corresponding increase of age.

TESTIMONIALS—Satisfactory testimonials of good moral character (preferably from the last principal instructor) are in all cases required, before a certificate of admission in full is granted. Students from other Colleges must present certificates of admission in good standing.

BOND—Every person must give to the Treasurer, on being admitted, a bond, executed by his parent or guardian, for five hundred dollars, as security for the payment of charges arising under the laws of the College. A blank form for this purpose will be furnished at the time of admission.

GOVERNMENT AND INSTRUCTION

The Dean has the general supervision under the Faculty of the Senior and Junior classes ; the members of the two lower classes are assigned by divisions for a similar supervision to the care of the several instructors in those classes. Absence from College exercises will be excused only for extremely urgent reasons. In general, a student cannot be excused for absence at the beginning or near the end of a term.

In order to cover all cases of absence which may seem justifiable to the student, but for which no excuses will be accepted, an allowance is granted to a member of the Senior or Junior class of absence from eight class-room exercises (recitations, lectures, or rhetorical appointments), and to a member of the Sophomore or Freshman class from six class-room exercises, during the first term and during each half of the second term, without incurring marks and without affecting his record for scholarship ; provided that these absences shall not immediately precede

or follow a vacation or recess ; provided, also, that no two absences shall be consecutive in any one study, and that such absences shall not excuse the student from preparation upon the omitted lessons when reviewed.

The members of each of the three lower classes are arranged at the beginning of each term in divisions according to scholarship. During the present year, for required work the Junior class is divided into four divisions, and the Sophomore and Freshman classes each into eight divisions ; in the elective courses, the divisions are of convenient size for class-room work.

Greek, Latin, and Mathematics occupy twelve and ten and a half hours of class-room work per week during the Freshman and Sophomore years respectively ; three hours of class-room work per week during the Freshman year, and two hours during the Sophomore year, are given to Modern Languages ; two and a half hours per week through the Sophomore year and one hour in the Freshman year are given to English.

If a student can pass a satisfactory examination in any of the prescribed studies for the work of one year in advance, he may be allowed to choose from the list of Electives some other course which he is qualified to pursue with advantage, covering the same number of hours.

In the Freshman and Sophomore years all the work is *prescribed*. The kind and amount of study in these two years are believed to be such as are essential for laying the foundation of a liberal education, whatever the department or profession that may be pursued in after-life ; and no more than is needed to give the student a proper basis of knowledge and discipline for the study of the *elective* courses which follow, and that knowledge of himself, and of the subjects before him, which is needed for a judicious choice. The basis is necessarily a broad one. The only prominent departments not now in this foundation, either in the preparatory or college work, though pursued in the later elective courses, are those of the Natural Sciences

and Chemistry. As some knowledge of these departments, of their methods of reasoning, of the use of the words "species" and "genus," and some idea of the system of nature, are essential to the student of almost any branch of philosophy, as well as to those who may take the elective courses in these sciences, it is recommended that the student should include the study of the elements of some departments of the Natural Sciences, and of Chemistry, in his preparation for College.

Of the work of the Junior year three-fifths and of that of the Senior year over four-fifths are in elective courses. The whole number of elective studies open to the two classes is at the present time one hundred and twenty-three; and in addition there are several courses of lectures, attendance on which is optional. The Juniors have open to them elective studies in the English Language and Literature, the Fine Arts, History, Political Science, the Natural Sciences, and Music, in addition to those in the departments of the Classics, the Modern Languages, and Mathematics; and the Seniors, electives under all these departments, along with others of higher range as particularly explained below.

Many of the courses fall naturally into groups: as that of the Ancient Languages and Linguistics; Psychology, Logic, and Philosophy, with Ethics; Political Science and Law; History; Modern Languages and Literature; Mathematics and Physics; Chemistry and the Natural Sciences; and the student is recommended to select his courses as far as possible according to his needs, in part perhaps according to his expectations as to future work, fixing first upon the chief subject, and selecting others that are subsidiary to it. In several cases, related courses are accessible to the student only as they are taken consecutively.

To promote the rational choice of elective courses, SPECIAL HONORS in various groups of studies are offered, to be given at the end of the Senior year, in accordance with the scheme on page 66.

THE PROGRAM OF STUDIES for the current year is as follows:

FRESHMAN YEAR:

Greek—Homer's Iliad, four books ; Xenophon's Memorabilia ; Philip-pics of Demosthenes ; Plato's Apology.

Latin—Livy, books i and ii ; Tusculan Disputations of Cicero, book i ; Satires of Horace ; Prose Composition ; History of the Roman Republic.

French or German—Three hours a week throughout the year. Students may at their option either continue the study of the modern language presented for admission to college, or begin the study of German in case they have not previously pursued it. Those who have sufficient knowledge of either language will be assigned to classes still further advanced.

Mathematics—In *Geometry* : Planes, Polyhedrons, Cones, Cylinders, and Spheres. Projection of figures with exercises on Models. Text-book, Chauvenet's Geometry.

Plane Trigonometry : Solutions of Triangles, Mensuration, and Surveying. Text-book, Richards's Trigonometry. Trigonometric Analysis. Text-book, Case's Elementary Treatise.

Algebra : The Geometrical interpretation of the Theory of Equations, Imaginaries, and the Solution of Higher Equations. Text-book, Phillips & Beebe's Graphic Algebra.

English Composition—Weekly exercises in composition throughout the year.

SOPHOMORE YEAR:

Greek—Sophocles' Antigone ; Euripides' Taurian Iphigenia ; Plato's Apology and Crito. Systematic study of the Greek drama, based on the extant plays of Sophocles.

Latin—Pliny's Letters ; Agricola and Germania of Tacitus ; Brutus of Cicero ; Odes and Epodes of Horace ; Trinummus of Plautus ; Phormio of Terence ; Sight-reading. With an advanced class, Tacitus' Dialogues and selections from Suetonius.

Modern Languages—Advanced French, or advanced German, at the option of the student, two hours a week throughout the year. Those who so desire may begin the study of German, in case they have never pursued it.

Mathematics—*Trigonometry* : Spherical Trigonometry ; Applications to Navigation and Astronomy. Text-book, Richards's Trigonometry.

Analytical Geometry : Plane and Solid, with Applications to Map-Projection. Text-book, Loomis's Analytical Geometry.

Mechanics—The elementary principles of Kinematics, Kinetics (or Dynamics), and Statics, in reference to solid bodies, with practical applications. Text-book, Dana's Mechanics.

Astronomy—Young's Elements.

English Literature—Selected essays, from Addison to Matthew Arnold ; Palgrave's Golden Treasury ; two plays of Shakespeare.

English Composition—Weekly exercises in composition throughout the year.

JUNIOR AND SENIOR YEARS:

The *prescribed* courses of Junior year occupy six hours per week, and those of Senior year two hours per week. In addition, each member of the Junior class is required to select nine hours per week, and each member of the Senior class thirteen hours per week, from the list of *elective* courses.

PRESCRIBED STUDIES OF JUNIOR YEAR:

Physics—Ganot's Physics : during the first term the subjects of Liquids, Gases, Sound, and Light, and part of the subject of Heat, with experimental illustrations in the class-room ; during the second term, Heat, continued, followed by Electricity and Magnetism, with weekly experimental lectures on these three subjects.

Logic—Jevons's Lessons in Logic ; Fowler's Inductive Logic ; exercises in the criticism of arguments ; lectures.

Psychology—Porter's Human Intellect ; lectures.

Ethics—Porter's Elements of Moral Science.

Theism, and the Evidences of Christianity—Lectures.

PRESCRIBED STUDIES OF SENIOR YEAR:

Philosophy—One course in this department of study, two hours per week throughout the year, is prescribed. The particular course taken is left, however, to the choice of the pupil from a list of four or more courses. Under the term Philosophy, as here used, is included the study of psychology, ethics, and the history of philosophy.

RHETORIC AND ELOCUTION:

Rhetoric—English Composition, Sophomore and Freshman years. See the preceding page ; and further explanations on page 61. For premiums in this department see pp. 79-80.

Elocution—Sophomore Year: Lectures on the Science and Art of Elocution,—logical analysis,—vocal analysis, expression, and culture,—oratorical action. Practice in speaking and recitation by sub-divisions. Individual instruction and private drill in preparation for speaking before the Professor of Rhetoric for the "Prizes for Declamation."

Junior Year : Three weeks of preparatory training for the speakers at the Junior Exhibition.

Senior Year : Three weeks of preparatory training for the speakers at Commencement.

ELECTIVE COURSES

Juniors select nine hours per week, and Seniors fifteen hours per week, from the following list. All the courses are open to members of either class, unless some limitation is expressed. The number of hours given, means in every case, hours per week. When a course is stated as occupying "both terms," it cannot, if chosen, be abandoned during the year.

I. PSYCHOLOGY, ETHICS, AND PHILOSOPHY

[Every Senior is required to take one course in this department. He must choose, for this purpose, from courses 1, 2, 3, and 4.]

Professor LADD :—

1 *Introduction to Philosophy.* [Seniors.] 2 hrs. both terms.

The design of this course is to present, in an elementary and summary way, the principal philosophical problems. To this end, a work giving a general treatment of the subject will be read, supplemented by the study of several of Lotze's "Philosophical Outlines." Lectures and discussions will continue through the year. Toward the close of the course, especial emphasis will be laid on Ethics, Aesthetics, and the Philosophy of Religion.

2 *Physiological Psychology.* 2 hrs. both terms.

A study (illustrated by charts, models, and histological preparations) of the human nervous mechanism, of the principal relations which exist between changes in this mechanism and the activities of the mind, and a discussion of the conclusions which may be drawn from these relations respecting the nature and laws of the mind. Ladd's *Elements of Physiological Psychology*.

Assistant Professor DUNCAN :—

3 *History of Philosophy.* [Seniors.] 2 hrs. both terms

An elementary study of the development of speculative thought from Descartes to the present time, with cursory reading of philosophical masterpieces from Descartes to Kant. Descartes' *Method and Principles of Philosophy*, pt. i; Bacon's *Novum Organum*; Spinoza's *Ethics*—selections; Locke's *Essay on Human Understanding*—selections; Leibnitz's *Monadology* and *Philosophical Opuscles*; Berkeley's *Principles of Human Knowledge*; Hume's *Inquiry concerning Human Knowledge*; Kant's *Prolegomena*.

Dr. SNEATH :—

4 *Ethics.* [Seniors.] 2 hrs. both terms.

An historical and critical study of Ethical Theory. The course will comprise—

1. *History of Ethics.*—a. Ancient Ethics, including Greek and Graeco-Roman Ethics, Christian and Medieval Ethics. b. Modern Ethics, including English Ethics from Hobbes to Leslie Stephen, and German Ethics from Kant to Hartmann. Sidgwick's *History of Ethics*, with references to Jodl's *Geschichte der Ethik*.

2. *Critical Study of Ethical Theory.*—Views of the various schools concerning the fundamental notions of morals compared and criticized. Sidgwick's *Methods of Ethics*, and Martineau's *Types of Ethical Theory*. The class-exercises will consist of lectures, oral and written recitations, and expository and critical essays by the students.

Ex-President PORTER :—

5 *Advanced Ethics.* [Seniors.] 1 hr. both terms.

This course is designed to afford the student opportunity to reexamine some of the questions which have been raised in the earlier study of Ethics. It will be mainly historical; and will consist in the reading and analysis of the principal works of selected authors.

Professor LADD:—

6 *Philosophical Anthropology.* [Seniors.] 2 hrs. both terms.

Man, as body and mind, in his relations to nature, to his fellows, and to God; and in his historical development,—from the

modern scientific and philosophical points of view. Lotze's *Microcosmus* will be read, and accompanied by discussions and lectures.

Assistant Professor DUNCAN:—

7 *Advanced Psychology*. [Seniors.] 2 hrs. both terms.

James' *Principles of Psychology* will be read as a basis for examination of the principal topics in this subject. Especial attention will be paid, by supplementary reading and by discussions, to recent investigations and advances in empirical psychology.

Dr. SNEATH :—

8 *Pedagogics*. 2 hrs. both terms.

This course will comprise—

1. *The History of Pedagogy*. A survey of the development of education from its rise to the present time, based upon Compayré's *History of Pedagogy*, and Boone's *Education in the United States*.

2. *Pedagogical Seminary*. a. Selections from various classics of Pedagogy: Locke's *Thoughts Concerning Education*, Rousseau's *Emile*, etc. b. A study of the life and work of educational reformers—Quick's *Educational Reformers*. c. A special study of the rise and constitution of great universities, including German, English, French, and American.

3. *Philosophy of Education*. A study of the fundamental principles of education, based on Rosenkranz' *Philosophy of Education*, and Bain's *Education as a Science*.

[The following courses, designed mainly for graduate students, are open to Seniors who wish to make a special study of philosophy, on application to the instructor.]

Ex-President PORTER :—

9 *Metaphysics*. [Seniors.] 1 hr. both terms.

This course comprises the reading and discussion of a variety of authors,—the questions considered having especial reference to Theism.

Professor LADD :—

- 10 *Philosophical Seminary.* [Seniors.] 2 hrs. both terms.

The class meets one evening each week for the discussion of the principal problems of philosophy. At each meeting brief papers will be read by two or more members of the class, to be followed by discussion. The order of topics followed corresponds, in the main, to that of Ladd's Introduction to Philosophy. The review of important recent works, or articles, on philosophy will occasionally occupy the time.

- 11 *History of Philosophy.* [Seniors.] 1 hr. both terms.

The somewhat thorough study of Hegel's system of philosophical thinking is undertaken. Lectures upon the *Phänomenologie des Geistes* are accompanied by reading of the Philosophy of History, and followed by the reading and discussion of the whole of the smaller Logic and parts of the larger Logic.

Assistant Professor DUNCAN :—

- 12 *History of Psychology.* [Seniors.] 1 hr. both terms.

This course comprises the reading and free discussion of some of the older works in psychology: *e. g.*, Locke's Essays; Berkeley's Theory of Vision; Reid's Inquiry; Kant's Anthropology, etc.

II. POLITICAL SCIENCE AND LAW

[Professor Sumner is absent for the year.]

Professor HADLEY :—

- 13 *Political Economy.* 2 hrs. both terms.

The elements of Political Economy, and the recent financial history of the United States, with lectures on the elementary principles. This course should be taken by Juniors who intend to give especial attention to this subject, as it is introductory to all the Senior courses in this department.

- 14 *Political Economy.* [Seniors.] 3 hrs. both terms.

A one-year course planned to give a substantial and comprehensive knowledge of the essentials of Political Economy to those whose chief interest lies in other departments of study.

(Courses 15 to 17 are open only to those who have taken course 13 in Political Economy.)

15 *Political Economy.* [Seniors.] 2 hrs. both terms.

Advanced Political Economy, consecutive with course 13. There will be lessons in selected passages from the leading text-books, and in economic history; also study of problems, examination of cases, and theses on leading topics of doctrine and history.

Dr. SCHWAB :—

16 *Finance.* [Seniors.] 1 hr. both terms.

A second-year course in money, banking, taxation, and public debts. The exercises consist of text-book lessons and papers on assigned topics. Those who can read French with sufficient facility read Leroy-Beaulieu's *Science des Finances*. Courses 15 and 16 are the continuation into Senior year of course 13; the time and topics being divided for convenience of choice.

Professor HADLEY and Dr. SCHWAB :—

17 *School of Political Economy.* [Seniors.] 1 hr. both terms.

A school of Political Economy is formed for those who desire to make this subject their chief study during the year. The financial history of the United States since 1860 is the field of study for this year. Each student is expected to investigate an assigned topic thoroughly, and to prepare a series of papers upon it. No one is admitted who does not take courses 15 and 16, and each one who joins must have obtained the consent of the instructors, which is given to those whose previous work in the department shows that they are most competent for this kind of work.

[The following course is omitted for this year.]

Professor SUMNER :—

17a *Social Science.* [Seniors.] 1 hr. both terms.

A very elementary course in the structure of society, and the origin and laws of development of civilization, on the basis of Prehistoric Science, Ethnology, and Archæology. The topics are illustrated by plates from the whole literature of Anthropology, and by visits to the museum. The course is occupied entirely with positive information and scientific method, and does not take up any of the subjects of criticism and speculation pop-

ularly connected with "social science." The class consists of three sections. The English section reads Taylor's *Anthropology* and Joly's *Man Before Metals*. The French section reads Quatrefages' *Histoire Générale des Races Humaines*. The German section reads Lippert's *Kulturgeschichte*. The exercises, for the French and German sections, are an hour and a quarter each, and count as two hours.

Dr. IRVING FISHER :—

18 *Mathematical Theory of Prices.* 1 hr. both terms.

Analytical, graphical and mechanical methods applied to production, consumption, exchange, and the determination of prices. Jevons's *Theory of Political Economy* is used as a basis. Students acquainted with German and French read parts of Auspitz und Lieben, *Untersuchungen über die Theorie des Preises*, and Walras, *Eléments d'économie politique pure*. Open to those who besides studying Political Economy have taken or are pursuing a course in Calculus.

Professor PHELPS :—

19 *Law.* [Seniors.] 2 hrs. 2d term.

The common law of this country. Constitutional law. International law. The instruction is by lectures based upon textbooks to be read in connection.

Course 19 is open only to those who have taken course 20.

Professor ROBINSON :—

20 *Jurisprudence.* [Seniors.] 2 hrs. 1st term.

The course consists of lectures, readings, and examinations on the following subjects: law in its relations to the origin, development, and government of political society; origin and development of customary law; relation of statute law to customary law; formation and development of codes of law; nature and origin of legal rights; principles of the law governing rights in land; principles of the law governing contract rights; the law of remedies for the violation of rights; origin and procedure of courts of law and equity; criminal law. The instruction in this course is designed to present an historical and philosophical view of the law in its great outlines, as common to all nations, and as particularly developed in the Anglo-Saxon race, and thus to serve as an introduction to the courses of Professor Phelps in Municipal, Constitutional, and International law.

III. HISTORY

Professor WHEELER :—

- 21 *History of Europe since 1789.* [Seniors.] 2 hrs. both terms.
Mainly political; introductory to European politics of our day.
- 22 *English History.* [Seniors.] 3 hrs. both terms.
Political and constitutional. Particular attention is given to the origin and development of the system of self-government. The course is of especial value to those who intend to study law.

Professor C. H. SMITH :—

- 23 *American History.* 3 hrs. both terms.
A general course, covering the colonial, revolutionary, and national periods.
- 24 *American History.* 2 hrs. both terms.
Political and constitutional history of the United States
- 24a *American History.* 1 hr. both terms.
A study of the Federal constitution and government, based upon Bryce's American Commonwealth.

Professor ADAMS :—

- 25 *Medieval History.* 2 hrs. both terms.
The object of the course is to furnish an outline of the general history of Europe, and to follow the development of political, intellectual, and religious civilization through the period which lies between ancient and modern history.
- 26 *Europe from 1520 to 1789.* [Seniors.] 2 hrs. both terms.
The history of Europe from the Reformation to the French Revolution. Especial attention is given to the political history.
- 27 *The Renaissance Age.* [Seniors.] 1 hr. both terms.
Especial attention is given to those portions of the history which present instructive parallels with nineteenth-century history.

IV. MODERN LANGUAGES

Professor KNAPP :—

- 28 *Old French.* 2 hrs. both terms.
Class read: *Premiers Monuments de la Langue Française*, *Chanson de Roland*, *Voyage de Charlemagne*, *Aucassin et Nicolette*, *Berthe aux grans piés*, and the *Roman de la Rose*, in connection with the Old English version in Chaucer.

- 29 *French.* 2 hrs. both terms.
Rapid translation of English prose into French, with conversation. Only for those who have studied French two full years in College.
- 30 *French (Sophomore).* 2 hrs. both terms.
Rapid reading of Balzac and Victor Hugo (*Père Goriot, César Birotteau; Les Misérables, etc.*).
- 31 *Spanish.* 3 hrs. both terms.
Grammar; Readings in Palacio Valdés, Alarcon, Aguilera, and selections from the *Don Quijote*.
- 32 *Italian.* 3 hrs. both terms.
Grammar; Readings in modern novelists; from Easter, Dante's *Inferno*.

M. BERGERON :—

- 33 *French.* 2 hrs. both terms.
History of the Theatre from its origin to the present day, with composition. Phonetics, with special reference to Brachet's Historical Grammar. This course is conducted in French during the second term.
- 34 *French (Sophomore).* 2 hrs. both terms.
Balzac and Victor Hugo, as above. (cf. Course 30.)
- 35 *French (Freshman).* 3 hrs. both terms.
Modern readings with strict reference to grammar, idioms, pronunciation, and vocabulary.

Professor PALMER :—

[Course 36 is open to those who have had at least two years, Courses 37 and 40 to those having had at least three years of German.]

- 36 *Schiller, Works and Life.* 2 hrs. both terms.
Critical study in chronological order of Schiller's poems, plays, and prose writings, with some investigation of his influence on German literature.
- 37 *Goethe, Works and Life.* 3 hrs. both terms.
After outline study of Goethe's life and development in connection with his lyric poems, his early prose writings, and his principal dramas, particular attention will be given to Faust I and II, the later prose works, and Goethe's important utterances in letters, journals, and conversations.

Mr. GRUENER :—

- 38 *Elementary German (Freshman).* 3 hrs. both terms.
 39 *Second-year German (Sophomore).* 2 hrs. both terms.

Professor PALMER :—

- 40 *History of German Literature since 1740.* 2 hrs. both terms.

Beginning with the time of Klopstock, the development of the literature will be followed as near to the present as is feasible, with special attention to the Classical Period and the Romantic School, characteristic authors and works, and a summary view of the literature since 1832. The work is largely coöperative, or on the "Seminar" plan.

- 41 *Gothic.* 1 hr. both terms.
 Braune's Grammar and Heyne's Ulfilas.
 42 *Introduction to Germanic Philology.* 1 hr. both terms.

Mr. GRUENER :—

- 43 *Middle-High German.* 2 hrs. both terms.
 Hartmann. Nibelungenlied. Selected poems of Walther von der Vogelweide. Lectures and papers.
 44 *German Prose.* 2 hrs. both terms.
 A course in rapid reading. Selections from history and literature, treating of the social life, institutions, and history of the German people during the Middle Ages. Freytag's *Aus dem Mittelalter* will be used as a basis of instruction.

Dr. OERTEL :—

- 45 *German Composition and Conversation.* 2 hrs. both terms.
 For practice in speaking and writing. Translations into German of narrative prose and of selections from history and literature. This course is conducted in German.

Dr. DAHL :—

- 46 *Norwegian and Danish.* 2 hrs. both terms.
 Beginners' course. The elements of the language learned inductively by reading selections from the writings of Björnson and Jonas Lie. This course is intended more especially for those who make a scientific study of English, or those who wish to obtain a general knowledge of the Teutonic languages.

- 47 *Norwegian and Danish.* 1 hr. both terms.
Advanced course. Selections read from Ibsen's *Brand*, A Doll-House; Kielland's *Novelletter*; H. C. Andersen's *Improvisatoren*. Lectures on modern authors.
- 48 *Swedish.* 1 hr. both terms.
Reading of selections from Tegnér's poems and the works of modern authors.

Professor BEERS :—

- 49 *English Literature of the 19th Century.* 2 hrs. both terms.
This course consists of critical readings in the class-room in the text of the principal English poets from Wordsworth to Tennyson, with outside assigned reading in the prose authors of the century.
- 50 *Literature of the Early Stuart and Commonwealth Period.*
2 hrs. both terms.
The literary history of the half century from 1603 to 1660, with special reference to the decadence of the drama, the development of prose, the "metaphysical poets," and the writings of Milton. Students electing this course must expect to buy a rather large number of books.
- 51 *History of English Romanticism from 1726 to 1890.*
[Seniors.] 1 hr. both terms.
This course is designed for special students of literary history. The instruction is given almost entirely by lectures, and examinations are held upon a somewhat extensive course of assigned reading.

Professor COOK :—

- 52 *History of English Literature.* 2 hrs. 1st term.
An outline of the subject, on the basis of Brooke's Primer, Taine, Morley's First Sketch, and tenBrink's Early English Literature, supplemented by outside reading. Frequent preparation of brief papers on assigned topics.
- 53 *Chaucer.* 2 hrs. 1st term.
Reading of selected Canterbury Tales, chiefly as literature.
- 54 *Old and Middle English.* 2 hrs. both terms.
An elementary course in the beginnings and earlier development of the English language and literature. Examination of the various elements of the modern English vocabulary, and

especially of the Saxon or Germanic element. Translation of Old English prose. Philological interpretation of selected passages by the instructor. Sweet's Anglo-Saxon Reader; ten Brink's Early English Literature; Cook's Sievers' Old English Grammar; Bede's History; Pauli's Life of King Alfred. Reading of selections from Chaucer and other Middle-English writers for linguistic purposes.

55 *English Essayists.* 2 hrs. 2d term.

Study of the opinions and style of selected prose authors, ranging from the Elizabethan era to the present. Frequent preparation of brief papers on assigned topics.

56 *Shakespeare.* 2 hrs. 2d term.

Critical study of a few selected plays. The Leopold edition of Shakespeare; Moulton's Shakespeare as a Dramatic Artist; Schmidt's Shakespeare-Lexicon; annotated editions of single plays, etc. Frequent preparation of brief papers on assigned topics.

57 *Bacon.* 2 hrs. 1st term.

Bacon's Essays and Advancement of Learning. Study through paraphrase and amplification. Bacon's character, opinions, and style. His place in Elizabethan literature. Frequent preparation of brief papers on assigned topics.

58 *Tennyson.* 2 hrs. 1st term.

Critical study of selected poems. Tennyson's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.

59 *Browning.* 2 hrs. 2d term.

Critical study of selected poems. Browning's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.

60 *Theories of Poetry.* 2 hrs. 2d term.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, dramatic, and lyric. Discussions and papers on the basis of standard works, such as Aristotle's Poetics, Sidney's Defense of Poesy, Lessing's Laokoon, and others of similar character.

V. ANCIENT LANGUAGES AND LINGUISTICS

Professor WHITNEY :—

- 61
- Sanskrit.*
- 4 hrs. both terms.

A first-year's instruction in Sanskrit, beginning with the instructor's Sanskrit Grammar, and passing on to Lanman's Reader. A sketch of Sanskrit literature is given in connection with the exercises during the latter part of the year.

Dr. SANDERS :—

- 62
- Hebrew (first course).*
- 4 hrs. both terms.

Genesis i-viii, and with these chapters, (a) the grammatical principles of the language; (b) the acquisition of a vocabulary; (c) translation of English into Hebrew; (d) easy sight-reading in the Hebrew Bible.

- 63
- Hebrew (second course).*
- 2 hrs. 2d term.

The critical translation of portions of the Books of Samuel, using as a basis Driver's "Notes on the Hebrew Text of the Books of Samuel," with (a) a review of the grammar; (b) the general principles of syntax; (c) a study of the principal prose accents; (d) the principles of Hebrew poetry.

- 64
- Arabic.*
- 2 hrs. both terms.

The Arabic version of Genesis i-iii (Lansing's Arabic Manual), and with these chapters the principles of the language; selected Suras of the Qurân; lectures on early Arabic civilization and Arabic literature.

Professor PECK :—

- 65
- Prose Latin of the 1st Century.*
- 2 hrs. both terms.

Quintilian (x and xii), Tacitus (*Dialogus* and *Annals*, i-vi), and Suetonius (*Tiberius*).

- 66
- Roman Satire.*
- 2 hrs. both terms.

Lucilius, Horace, Persius, Juvenal, and Martial.

- 67
- Latin Composition.*
- 1 hr. both terms.

Papers and Conversation in Latin.

This course is designed especially for those who expect to teach, and can be taken only by such as have done superior work in Latin.

Professor H. P. WRIGHT :—

- 68 *Horace and Catullus.* 2 hrs. 1st term.
Books iii and iv of the Odes of Horace, with selections from Catullus.

Professor MORRIS :—

- 69 *Plautus.* 2 hrs. 1st term.
The *Amphitruo* and the *Miles Gloriosus*.
- 70 *The Conspiracy of Catiline.* 2 hrs. 2d term.
Cicero, in *Catilinam*, i-iv, *pro Sulla*, *pro Murena*; Sallust, *Catilina*; the Commentary of Asconius.

Dr. F. G. MOORE :—

- 71 *Seneca.* 2 hrs. 2d term.
Moral Essays and Letters.

Professor SEYMOUR :—

- 72 *Greek Tragedy.* 2 hrs. 1st term.
The Prometheus and Suppliants of Aeschylus, with special study of dramatic art, the development of tragedy, metres, and scenic antiquities.
- 73 *Greek Tragedy.* 2 hrs. 2d term.
The Persians, Seven against Thebes, and Eumenides of Aeschylus.
- 74 *Pindar.* 2 hrs. 1st term.
Selected odes, with a sketch of lyric poetry.
- 75 *Plato.* 2 hrs. 1st term.
The *Gorgias*, with special attention to the dramatic character of the dialogue, the characteristics of Plato's style, and the connection of thought.
- 76 *Plato.* 2 hrs. 2d term.
The Republic.
- 77 *Greek Testament.* 1 hr. 2d term.
A philological, not theological, interpretation of Paul's first Epistle to the Corinthians.

Mr. KITCHEL :—

- 78 *Sophocles.* 1 hr. both terms.
The *Oedipus at Colonus* and *Philoctetes*.

Assistant Professor CLAPP :—

79 *Euripides.* 2 hrs. 1st term.

The *Medea* and *Ion*. In this course while linguistic and metrical questions are not altogether neglected, special attention is directed to the literary aspect of the dramas read. Euripides is studied as a dramatic poet; his excellencies and defects are discussed and brought out by comparison with selected works of his ancient and modern imitators, Seneca, Corneille, Racine, and others.

80 *Euripides, and Greek Composition.* 2 hrs. 2d term.

In this course one of the weekly hours is devoted to reading the *Hippolytus*, *Heracleidae*, and *Hecuba*, with reference to the same objects as in the previous course. The other weekly hour is spent in exercises in Greek composition, on the basis of Sidgwick's Introduction.

81 *New Testament.* 1 hr. 1st term.

An introduction to the study of Hellenistic Greek, based chiefly on the book of the Acts, with readings from the book of Revelation.

Assistant Professor GOODELL :—

82 *The Greek Element in the English Language.* 1 hr. 1st term.

A practical course in tracing the etymology of English words derived from Greek. Especial attention is given to scientific terms, and to ascertaining the principles which should be followed in forming such terms.

83 *Topography and Monuments of Athens.* 1 hr. 2d term.

The object of the course is to gain as good an idea as the time allows of the external appearance of ancient Athens and Attica. Photographs, plans, the descriptions of Pausanias and of modern travelers, together with the results of recent excavations, are studied partly in class and partly in private. The course includes therefore an introduction to Greek architecture, and in connection with the Parthenon and other temples, some attention is given to sculpture of the best period.

Mr. HUNT :—

84 *Demosthenes : The Oration on the Crown.* 2 hrs. 2d term.

The speech is studied from the literary point of view, and compared with English masterpieces.

VI. THE FINE ARTS

[For full particulars with reference to the details of the following courses, see the general statement and prospectus of the School of Fine Arts, on a later page.]

Professor WEIR :—

— *Technical Course in Art.*

[Seniors.] 2, 3, or 4 hrs. both terms.

This course is open only to those who have taken the next course in the Junior year. Two, three, or four exercises a week of two hours each; the number determined by the option of the student. Supplemented by lectures on the Grammar of Art; Painting, Sculpture, and Architecture; Schools and Masters.

Professor NIEMEYER :—

— *Drawing.* [Juniors.] 2, 3, or 4 hrs. both terms.

Studio practice in drawing from the Antique; and later, if qualified, in drawing from the Life. Two, three, or four exercises a week, of two hours each, at the option of the student. This course is supplemented by lectures in Aesthetics, Perspective and Plastic Anatomy.

Professor HOPPIN :—

History of Art. [Juniors and Seniors.] 2d term.

A course of lectures on Greek Art—Sculpture, Architecture, and Painting—treating it by its periods or cycles, and in reference to Greek thought and literature.

These lectures form part of the two technical courses, and attendance upon them is obligatory; they are also open to the voluntary attendance of all members of the Junior and Senior classes. The same statements apply to the course of lectures by Professor Weir during the first term.

The collections of the Art School are open *free* to all students in the Academical Department, from 2 to 6 P. M., daily.

VII. NATURAL AND PHYSICAL SCIENCE

Professor J. D. DANA :—

- 85 *Geology*. [Seniors.] 2 hrs. 1st term.
Geology—physiographic, lithological, and historical. Dana's Manual.
- 86 *Geology*. [Seniors.] 2 hrs. 2d term.
Remainder of the historical Geology, and dynamical Geology.
Open only to those who have passed the examination in course 85.

Dr. BEECHER :—

- 87 *Invertebrate Paleontology*. [Sen.] 2 to 4 hrs. both terms.
(1.) The study of extinct faunas by means of collections of fossils from typical localities.
(2.) Systematic study of the structure and affinities of a group of fossil organisms.
Open to those having some previous knowledge of Geology and Zoology.

Professor EATON :—

- 88 *Botany*. [Juniors.] 2 hrs. 2d term.
An elementary course in the botany of flowering plants. Recitations from Gray's Structural Botany from January till about May 1st, followed by practical work in examining and identifying the ordinary native plants of the vicinity. The class is limited to twenty students.
- 89 *Pteridology and Bryology*. [Seniors.] 2 hrs. both terms.
This course consists of practical work in the preparation and microscopic examination of vegetable tissues, with especial reference to the structure of ferns and mosses. It is limited to those persons who have taken course 88 or its equivalent.

Professor A. W. WRIGHT :—

- 90 *Physics*. [Seniors.] 2 hrs. both terms.
Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light, and electricity, each exercise occupying two hours. As introductory to the laboratory practice, the exercises, during a portion of the first term, consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments.

and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises. Kohlrausch's Physical Measurements; Glazebrook and Shaw's Practical Physics; Stewart and Gee's Practical Physics; Ayrton's Practical Electricity; Kempe's Handbook of Electrical Testing; Everett's Units and Physical Constants, etc.

The successful prosecution of this course requires proficiency in the Physics and Mathematics of the previous years, the lack of which may be made a reason for exclusion from the course.

Professor E. S. DANA :—

91 *Mineralogy and Crystallography.* 2 hrs. both terms.

Practical study of mineral species by means of blowpipe analysis and other methods; mathematical study of crystals by the methods of analytical and spherical trigonometry, as also of their optical properties. The time is divided about equally between the two parts of the subject; the practical exercises are prolonged to cover two hours when but little outside preparation is called for.

92 *Descriptive Mineralogy.* [Seniors.] 1 hr. both terms.

Advanced course in the study of mineral species for those who have already gone through course 91.

93 *Petrography.* [Seniors.] 1 hr. both terms.

The study of rocks, chiefly by the microscope, involving also a preliminary study of the form and optical characters of the minerals common in crystalline rocks. The exercise may be extended over two hours. Limited to those who have taken course 91.

Professor GOOCH :—

[Courses 98, 99, 100, with Course 94, constitute a connected and continuous line of study in Biology, extending through the Junior and Senior years.]

94 *Experimental Inorganic Chemistry.* 3 hrs. both terms.

Chiefly practical work in the Kent laboratory, with lectures and written exercises. This course is preliminary to the other courses in Chemistry and to the course in Biology.

- 95 *Experimental Organic Chemistry.* 2 hrs. both terms.
An introduction to the study of the compounds of carbon. The work is chiefly in the laboratory. Open to those who have previously taken course 94.
- 96 *Analytical Chemistry (first course).* 3 hrs. both terms.
Laboratory practice in the processes of ordinary qualitative analysis and the principles of quantitative analysis by volumetric methods. Open to those who have taken course 94.
- 97 *Analytical Chemistry (second course).* 3 hrs. both terms.
Laboratory practice in the methods of gravimetric quantitative analysis. Open to those who take also course 96, or have taken it previously.
In courses 94-97 two hours in the laboratory count as the equivalent of a single recitation hour; and in all a special laboratory fee is charged.

Professor CHITTENDEN :—

- 98 *Physiology.* [Juniors.] 1 hr. both terms.
Huxley's Lessons in Elementary Physiology, with occasional lectures and illustrative experiments. This course is designed as a preparation for courses 99 and 100 of Senior year, and is open only to those intending to take these courses. This course is limited to those who take course 94.
- 99 *Physiological Chemistry.* [Seniors.] 4 hrs. 2d term.
Four exercises a week, of a minimum of two hours each, in the laboratory of physiological chemistry. This forms a continuation of course 100 and is open only to those who have taken courses 94 and 98 in Junior year. The time is devoted mainly to a study of the chemistry of the connective, contractile and nerve tissues, of the chemical processes of salivary, gastric, and pancreatic digestions, and so far as the time allows, of other subjects connected with the physiology of nutrition and the chemistry of the excretions.
A short course of lectures by Professor S. I. Smith on Embryology, and a somewhat longer one by Professor Chittenden on Experimental Toxicology, are also open to students in the above course.
A laboratory fee is charged for courses 99 and 100. The student in addition must bear the expense of gas, flasks, etc., which should not exceed ten dollars.

Professor S. I. SMITH :—

100 *Elementary Anatomy and General Biology.*

[Seniors.] 4 hrs. 1st term.

Four exercises, of a minimum of two hours each. Laboratory work and informal lectures. The time is devoted principally to dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the rudiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations. Open only to those who have taken courses 94 and 98 in Junior year, and to be followed by course 99, 2d term.

VIII. MATHEMATICS

Professor NEWTON :—

101 *Calculus.*

2 hrs. both terms.

102 *Integral Calculus and Mechanics.* [Sen.] 3 hrs. both terms.

Mean values and probability; differential equations; analytical statics and dynamics. Open only to those who have taken course 101.

103 *Shooting Stars and Meteors.* [Seniors.] 1 hr. both terms.

The mathematical theories of these bodies, and the treatment of the observations of them.

Professor GIBBS :—

104 *Vector Analysis.*

[Seniors.] 2 hrs. 1st term.

Elementary course, in which the simpler problems of geometry, kinematics, and mechanics are treated by vector methods. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's.

105 *Vector Analysis.*

[Seniors.] 2 hrs. 2d term.

Advanced course, including differentiation with respect to position in space, the theory of the potential and allied functions, and that of linear vector functions. This course is especially designed for an introduction to the study of mathematical physics, and is open only to those who have taken the preceding.

- 106 *Computation of Orbits.* [Seniors.] 2 hrs. 2d term.
Vector methods are used, and the course is open only to those who take course 102.

Professor RICHARDS :—

- 107 *Higher Trigonometry.* 2 hrs. 1st term.
Exponential and logarithmic series; DeMoivre's theorem; theory of proportional parts; applications. Calculus desirable but not required.

Professor PHILLIPS :—

- 108 *Plane Analytical Geometry.* 2 hrs. both terms.
An extension of the required courses in Graphic Algebra and Analytical Geometry, including the use of determinants and trilinear coördinates: application to curve-tracing.
- 109 *Solid Analytical Geometry.* 1 hr. both terms.
Study of models of mathematical surfaces. Open only to those who have completed course 108 or an equivalent.

Assistant Professor BEEBE :—

- 110 *Surveying.* 2 hrs. 1st term.
Field work with surveyors' transit and level. Recitations from Gillespie's Surveying.
- 111 *Geodesy.* 2 hrs. 2d term.
Measurements and computations for a secondary triangulation from a baseline of the U. S. Coast Survey; reductions to center; distribution of errors; measurement of a base of verification. Open only to those who have taken course 110.
- 112 *Practical Astronomy.* 2 hrs. 2d term.
Development of formulae relative to azimuth, latitude, and time; observations with the theodolite, transit instrument, and sidereal clock; numerical computations for the reduction of the observations. Recitations from Loomis's Practical Astronomy. Open only to those who have taken course 110.
- 113 *Elements of Astronomy.* [Juniors.] 1 hr. both terms.
The course pursued is essentially that presented in the abridged edition of Young's Astronomy. Facilities are given for the study of the constellations and the use of the telescope.

- 114 *Descriptive Astronomy (Advanced).* 1 hr. both terms.
Young's General Astronomy; Clerke's History of Astronomy.
Open only to those who have taken course 113.

Mr. DUTCHER :—

- 115 *History of Mathematics.* 1 hr. 1st term.
Based on Ball's History of Mathematics, which is supplemented by references to the various authorities in English, French, and German.
- 116 *Modern Geometry.* 1 hr. 2d term.
Elementary course, taking up in a simple way the modern idea of the point, line, and circle. Dupuis' Synthetic Geometry.
- 117 *Modern Geometry.* 2 hrs. 2d term.
More thorough course than the preceding, taking up the projective properties of the point, line, and conic. Cremona's Projective Geometry.

IX. MUSIC

Professor STÖCKEL :—

- 118 *Harmony.* 2 hrs. both terms.
Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody.
- 119 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.
Counterpoint of the I, II, III and IV orders. Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.
- 120 *Forms.* 1 hr. both terms.
Motive, Phrase, Period, Part, Song. Rondo. Sonata. Orchestral Forms.

Lectures are given on the *History of Music, sacred and secular; Aesthetics; Analysis*: Oratorio, Opera, Chamber-music, Symphony; *Biography*: Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

Members of any department in the University may be admitted to courses 118, 119, 120. The lectures are open also to friends and scholars of music, who are not matriculated. Admittance to course 118 is without examination. Admittance to course 119, after passing a satisfactory examination in the work of course 118. Admittance to course 120, after passing a satisfactory examination in the work of course 119.

The following statements are added to explain the general aim and scope of the instruction in some of the leading subjects of study.

GREEK—During the first two years, the student reads five or six books of Homer, dramas of Aeschylus, Sophocles, and Euripides, one or two comedies of Aristophanes, selections from the history of Herodotus, one or more orations of Demosthenes, Isocrates, or Lysias, the Apology or some dialogue of Plato; occasionally, the Symposium of Xenophon or selected dialogues of Lucian. These works are selected with a view to making the student familiar with the leading branches of Greek literature, and the most interesting phases of Greek life and thought. The most important grammatical principles are reviewed in Freshman year; in Sophomore year, grammatical questions are discussed rarely, except as they are necessary for the interpretation and illustration of the author's meaning. In reading the works of the poets, less attention is paid to linguistic and grammatical points than to their literary quality, to the structure of the poems, to poetic words, forms, arrangement of words, rhythm, and constructions; but the growth and development of the language are discussed as well as the development of the literature. In reading the orators and historians, the connection of thought and of events is made prominent. Greek prose composition is practiced so far only as to aid the student in reading Greek authors, and to quicken his perception of nice distinction in the order and choice of words and construction.

In the optional courses of the Junior and Senior years, the student has the opportunity of reading the works of the lyric poets, other Greek dramas, and other dialogues of Plato, parts of Aristotle (his Politics and Ethics), and the idyls of Theocritus; as well as of studying Greek inscriptions, and of doing more critical work on the Homeric poems than is suited to the first College year; and of learning the Modern Greek language. The history of Greek philosophy is studied. Students may also attend Professor Hoppin's fully illustrated lectures on Greek art, in the Art School.

LATIN is continued as a required study till the close of the Sophomore year, when it is intended that the student shall have gained clear conceptions of the genius of the language and its relations to other ancient and to modern tongues, a good knowledge of the characteristics of Latin literature and the essential facts of Roman history, and some appreciation of the position of Rome in the history of civilization. That subsequent reading of the language may be more easy and more exact, due attention is given in the early part of the course to forms, constructions, and idioms. From term to term the study of the literature

is made more prominent, and the particular texts are treated as means for the study of the public and private life of the Romans. Instruction is given mainly by recitations, but such work is supplemented by occasional lectures by the instructors and by conferences on papers presented by the pupils. In connection with the minute study of the authors, considerable time is given to oral and written reading at sight, and to composition in Latin.

For Juniors and Seniors who desire to continue their Latin studies, parallel courses are offered by different instructors, with different ends in view and by different methods. The characteristic of a course may be, *e. g.*, literature, or history, or philology, or antiquities, or the speaking and writing of Latin; and the methods of preparation and the classroom treatment vary accordingly. Topics suggested by the nature of the courses, or by individual tastes and intentions, are assigned to students, and papers thus prepared are discussed before the class. Lectures and the rapid reading of large amounts of text are more frequent than in the prescribed courses. The connection of Latin with English is emphasized, and written translations are from time to time required and criticized with reference both to their faithful reproduction of the Latin thought and their idiomatic English. German annotated editions are often used, not only for their intrinsic helpfulness, but also to encourage the practical use of that language. Students who give evidence of unusual capacity and attainments may be admitted to membership of graduate classes.

MATHEMATICS—In Geometry the exercises consist in recitations from the text-book, the original demonstration of theorems, and applications of the principles to the solution of numerical problems.

After the student has gained facility in the use of trigonometrical tables, the principles of Plane Trigonometry are applied to the problems of Mensuration, Surveying, and Navigation, and those of Spherical Trigonometry to the elementary problems relating to the celestial sphere.

In Algebra the elementary principles of the theory of equations are illustrated graphically, and the student is exercised in the numerical solution of equations of the higher degrees and the graphical representation of the relations of quantities.

In Analytical Geometry the student is carried through the elementary properties of the lines and surfaces of the second degree, and is introduced to the theory of map-projection.

These are studies of the Freshman and Sophomore years, and together with the elements of Astronomy which are pursued in Sophomore year, are regarded as essential parts of a liberal education.

In the Junior and Senior years opportunity is given in the elective courses to obtain a wider knowledge of Analytical Geometry and

Trigonometry with their applications to Geodesy and Astronomy. A course is provided in Junior year in Differential and Integral Calculus, designed for such as expect to make a serious study of any department of pure or applied mathematics.

In Senior year advanced subjects in the Calculus and the elements of Analytical Mechanics form one line of study.

An elementary and an advanced course are provided in what is called Vector Analysis. The object of these courses is to introduce the student to the methods of multiple algebra in geometry, mechanics, and physics. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's. The elementary course is confined to the simplest algebraic relations of vectors. The advanced course includes differentiations with respect to position in space, and the theory of linear vector functions.

Students who show special aptitudes are exercised in the working up of subjects which require the use of the library and more prolonged investigation than the daily exercises of the class-room. Such work begins in Freshman year. There is a considerable collection of models which are used to assist the imagination in the various branches of study.

ENGLISH—The required study of English Literature occupies three hours a week through half of Sophomore year. Selected works of Addison, Lamb, DeQuincey, Matthew Arnold, and other essayists are read; also poems contained in Palgrave's *Golden Treasury*, and two plays of Shakespeare. The object of the course is training in methods of reading,—to promote quickness and accuracy of perception in respect to thought and style.

A course in Old and Middle English is offered to Juniors and Seniors, and is intended as an introduction to a study of the origins of our language and literature.

A brief survey of the whole field of the History of English Literature is attempted in the Autumn term, the aim being to give such a view of the mutual relations of the principal authors and epochs as may enable the student to plan courses of English reading and study with intelligence and judgment. Instruction in this course is given by means of Brooke's *Primer of English Literature*, supplemented by topical study pursued through the medium of papers prepared by the members of the class, which, after being read aloud, are made the subject of discussion. The course in English Essayists is devoted not only to familiarizing the student with the thought of the author read, but also to some examination of the qualities of English prose style as exemplified by these authors.

Opportunity is afforded for the critical study of a number of individual authors in as many different courses. Among those studied during the present year are Chaucer, two Elizabethans, Bacon and Shakespeare, and two eminent contemporaries of this century, Tennyson and Browning. Stress is laid in these courses upon the distinctive personality and workmanship of the writer in question, but an endeavor is also made to promote the conception of literary masterpieces as wholes, as works of art subject to the laws of inner unity and harmony, and not merely as texts for verbal study or collateral illustration.

A course in theories of poetry is designed to acquaint the student with some of the more influential treatises which have dealt with the principles of poetic structure, the limits of the various species, and the criteria of excellence, and to test such acquaintance by affording an opportunity for applying such principles and criteria to a few selected poems.

A course in English romanticism is open to Seniors. This course is designed for special students of literary history and the work is conducted almost entirely by lectures and examinations and by the preparation of notes on the works read. The period covered is from 1726 to the present day, and the authors read are—in part—Pope, Thomson, Shenstone, T. and J. Warton, Johnson, Collins, Gray, Walpole, Mason, Radcliffe, Macpherson, Chatterton, Scott, Coleridge, Keats, Hunt, Rossetti, Morris, etc.

A course in the literature of the nineteenth century, open during the current year to Seniors and Juniors, embraces selections from Wordsworth, Landor, Coleridge, DeQuincey, Lamb, Scott, Byron, Shelley, Keats, Carlyle, Ruskin, George Eliot, Thackeray, Tennyson, Browning, and possibly other authors. The authors selected are studied partly by critical readings in the class room, and partly by outside assigned reading for examination. Lectures are introduced from time to time.

A course in the literature of the first two Stuarts and the Commonwealth (1616-1660), open to Seniors and Juniors, is devoted particularly to the decadence of the drama, the development of prose, the "metaphysical poets," and the early work of Milton. This course embraces selections from Jonson, Beaumont and Fletcher, Massinger, Ford, and Shirley: from Clarendon, Taylor, Fuller, Browne, and Izaak Walton: from Donne, Herbert, Vaughan, Crashaw, Herrick, Carew, Lovelace, Suckling, Marvell, Wither, Waller, and Milton. Papers are prepared by individual members of the class, on specially assigned topics, illustrative of the literary history of the period.

One hour each week throughout Freshman and Sophomore years is devoted to English Composition. The student prepares himself previously to write on some one of various assigned subjects, but his essay is composed in the class-room, and so far as expression goes is sup-

posed to be an extempore exercise. This method makes it impossible for anyone to shirk constant practice in writing, and gives most satisfactory results in readiness of composition, and in a direct and natural style. At first the work is confined to sketches and lighter forms of the essay; later, themes are selected which require a certain amount of reading. The aim of the topics is to develop originality in ideas, and imagination. The pieces are read by the instructors in rhetoric, and are returned with criticisms and suggestions; there are also occasional lectures on the treatment of subjects and on expression. Compositions prepared by the student at his leisure, of a more elaborate character, are also criticized; and so far as possible the instructors make appointments for meeting personally those who desire more extended advice.

GERMAN—The student may pursue the study of German during each of the four years of his College course, if he so elect. While the study may be begun at the opening of any of the four years, it is strongly urged that the elementary work be done as early in the College course as possible, in case the student proposes to take up the language at all.

The courses of work for the successive years may be outlined as follows. During the first year the work consists of German grammar, translation of easy English phrases, sentences, and stories into German, and of easy German prose into English. Constant sight-translation is used as a means for developing and strengthening the student's vocabulary and for freeing him from dependence upon the lexicon and from the word-by-word methods which its use encourages. Especial care also is devoted to pronunciation. The work of the second year continues and extends that of the first year, taking up the translation of German prose, narrative, critical, and historical composition, and sight-translation. Throughout the two years the aim in reading German is to cover as much ground as possible—from 500 pages upwards—in the belief that thereby the student will acquire more command of the language than when a smaller amount is read with rigid attention to grammatical details. It is expected that at the end of the second year the student will be able to use the language in his work in other branches of study. Those, therefore, who are studying German solely with this end in view may perhaps abandon the language at this point; but no student should begin the language unless he expects to devote at least two years to its study.

For the remaining years the elective courses vary from year to year; but opportunity is given for the critical study of some of the masterpieces of German literature and for the study of periods in its history. Those who so elect may also have opportunity to take up the earlier German literature and to study the historic development of the grammar of the language.

German readings are given by the instructors outside the regular College work, and advanced classes in composition formed, where German alone is spoken. German is constantly read aloud in the class-room, and all efforts, both in the class-room and in private, are made to improve the student's pronunciation and to help to him acquire some facility in expressing his ideas in German. But it is not a leading aim in the instruction in German to enable the student to converse in that language. Training in the ordinary conversational idiom may be had more profitably elsewhere and cannot form any considerable part of the class-room work. The student may acquire the language as a tool for use in other departments of study, and may come in contact with the best works of German literature, studying their form and contents, and the lives and environment of their authors; fluency in conversation must be acquired where the conditions are more fitted to the object which they are to effect.

FRENCH—This course may extend through the entire four years, involving the study of the leading epochs of the language and literature from their inception to the present; embracing especially, with reference to English origins, the Norman dialect of the Old French as exhibited in the *Chanson de Roland*, the *Roman de Rou*, and the *Fabliaux* of Marie de France; in the xv. and xvi. centuries the works of Villon, Marot, Rabelais, and Montaigne, as representatives; the drama from the earliest *Mystères*, *Farces*, *Soties*, to Garnier, Corneille, Molière, and Racine; in satire and criticism, Boileau; dwelling particularly on the foreign and natural influences that moulded the language till it assumed its actual form. Attention throughout the earlier years is given to composition in French as the best method for training the attention, the memory, and the judgment, and the oral use of the language is insisted on for the course in the Classical and Old French periods. Instruction is given by recitation, and lectures in French will be read on the history of the language and literature, on which written French examinations will be required.

PHYSICS—The required course in Physics extends through the year with three exercises weekly. The general design of the course is to make the student acquainted with the fundamental principles of the science, to enable him to understand something of the methods of experiment and reasoning by which physical laws have been established, and to give him an insight into the degree of accuracy demanded in physical work. The subject of Electricity is treated at somewhat greater length than the other branches, and is fully illustrated by experimental lectures; in this direction the recent equipment of the Sloane Laboratory makes the department especially strong. During the Senior

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year there is an opportunity for those students desiring to avail themselves of it, to go forward with practical laboratory work, as is described in the list of elective courses.

CHEMISTRY—The study of this subject is optional. Four courses in experimental descriptive chemistry (inorganic and organic) and analytical chemistry are open to undergraduates. Instruction in these courses is given in practical exercises in the laboratory and demonstrations in the lecture-room. Frequent examinations to emphasize the more essential points, as well as to test the progress of the student, are an important feature of the plan of work. It is the aim of these courses to teach the facts and principles of chemistry by the inductive and experimental method. Students sufficiently advanced have the opportunity to undertake the solution of problems demanding original thought and investigation.

POLITICAL SCIENCE AND LAW—The instruction in the elements of Political Economy is intended to give familiarity with the method and doctrines of the so-called "orthodox" economists, as the proper introduction which the student should have to the science, and as the basis for whatever may be offered later. Text-books are used with set lessons, constant examinations, both written and oral, discussions, and illustrations. The courses are arranged in the belief that the student will gain more under a classification which is adjusted to meet differences of interest and capacity. Those who take Political Economy in Junior year have an opportunity in Senior year to become acquainted with the history of the science and the controversies now going on in it, and to study more thoroughly special topics. In the course on Anthropology they are also offered an opportunity to become acquainted with the new sciences whose investigations are so important for the whole field of social science.

The course in Law treats of municipal and international law as parts of a liberal education. The object is to study civil institutions, both in their theory and in their positive form. The instruction is elementary, dealing with the fundamental facts and principles which underlie the civil polity of the American State, and is intended to give the student a correct knowledge of such essential facts about the life of the State and its accepted doctrines, as every educated man should possess, as well as to lead up to the professional study of law.

MENTAL AND MORAL SCIENCE, AND PHILOSOPHY—The courses in this branch of study begin in Junior year, and continue until graduation. During Junior year, three hours per week of class-room work in Logic, Psychology, Ethics, and the Evidences of Religion, and during Senior

year two hours per week of class-room work in Philosophy, are required of every student ; the remainder of the work in these and kindred subjects is elective.

LOGIC—This is a required course extending through the Junior year. It aims at a thorough knowledge of the principles of deductive and inductive reasoning. In deductive Logic special attention is given to an analysis of the syllogism as well as to a study of its functions and logical value. Oral and written discussions of examples of deductive argument constitute a considerable portion of the work of the class. In inductive Logic the problem, grounds, and principles of induction are discussed. A great deal of attention is given to familiarizing the students with the principles and methods of scientific investigation. Essays on observation, experiment, classification, hypothesis, etc., are required. The work of the year closes with an examination of recent logical theories.

The course in Deductive Logic is based on Jevons-Hill's *Elements of Logic* ; in Inductive Logic on Fowler's *Deductive Logic*.

PSYCHOLOGY—Required work in this subject begins in Junior year and consists of two exercises a week, continued through three-fifths of the college year. Although the course is taught with constant use of a text-book, upon which recitations are exacted, considerable time from the first is taken by the teacher in oral instructions, critical or supplementary of the text. Attention is called to the most recent advances in experimental psychology, and to the educational bearings of the subjects treated. The most important of the older and newer works on psychology are placed in the University Reference Library for the use of students who are urged to do side reading in connection with the class-room work. The course in *Physiological Psychology* extends through the entire year and is taught by lectures and recitations ; it is illustrated by constant use of models, charts, histological preparations, apparatus for mixing color-sensations, etc. It is designed to go briefly over the whole ground of the modern experimental and physiological study of mental phenomena ; especially as regards reflex and automatic cerebral action, the localizing of cerebral function, the quality and quantity of sensation, psychometry, and the physical basis of the higher faculties. It may be elected either in Junior year as preparatory, or in Senior year as supplementary, to the required course in *introspective Psychology*.

HISTORY OF PHILOSOPHY—The study of this subject is confined to Senior year. In the study of the *History of Greek Philosophy* the principal emphasis is laid upon Plato and Aristotle, and upon the post-Aristotelian Schools, as illustrating the permanent and most interesting problems of Philosophy.

The course in Modern Philosophy extends through the whole of the Senior year. The subject is taught both by recitations from the textbook, with accompanying remarks from the teacher, and by lectures. Effort is made to secure from each pupil the careful reading of at least one work of some prominent philosopher of the period considered in the class-room. Special emphasis is laid upon the philosophy of Kant. It is a constant aim to trace the development of modern speculative thought so as to throw light upon the principal questions in debate among present writers in philosophy.

PHILOSOPHY—In addition to the study of Philosophy as connected with the problems of rational Psychology, and as illustrated and enforced by the history of the development of Philosophy, the works of one or more of the leading authors are read and discussed, with such students as take the elective courses opened for this purpose. In this way the more general studies in Metaphysics and Ethics are supplemented by special information regarding selected subjects and writers.

MORAL SCIENCE, as a study, is intimately connected with the instruction in Psychology and Philosophy, as its foundations are discovered in the constitution of the human soul, and its method and fundamental relations are justified and enforced by those principles which are essential to all scientific thinking. In the department of Moral Science and of Practical Ethics, a somewhat thorough course is required of the entire Junior class, as an essential element of a thorough education and an important condition for practical usefulness. This general course is supplemented by special classes in scientific and practical Ethics, and particularly in the history and criticism of ethical theories, which are maintained through the year.

SPECIAL HONORS

Special Honors are conferred at the end of Senior year.

One-year and two-year honors may be taken in the following groups of studies:

(1). Philosophy. (2). Political Science, History,* and Law. (3). English. (4). Ancient Languages. (5). Modern Languages (exclusive of English). (6). Natural and Physical Science. (7). Mathematics.

A candidate for a one-year honor must pursue with distinction in his Senior year, and a candidate for a two-year

* In the year 1892-93 it is intended to separate the Senior work in History from that in Political Science and Law, in the award of Honors.

honor in his Junior and Senior years, courses (whether prescribed or elective) amounting to an average of at least six hours per week in one of the specified groups. For a two-year honor the work must be so distributed that an average of at least four hours per week is taken in Junior year.

In Classics, Modern Languages (exclusive of English), and Mathematics, two-year honors will be given if the work in those subjects amounts to four hours per week in each year.

Students taking a sufficient number of hours in any group may by that fact be considered as candidates for honors in that group.

A candidate's whole work in any group, though it may be more than the minimum requirement for an honor, will be reckoned as in competition for the honor.

A candidate for either honor must present a meritorious thesis before June 1, of his Senior year.

[In the department of Modern Languages, elementary German will not be reckoned for honors. In the department of Mathematics, no student will be considered a candidate for honors, unless he has taken the Calculus.]

TERMS AND VACATIONS

THE PUBLIC COMMENCEMENT is held on the last Wednesday in June. The first term begins thirteen weeks from the day after Commencement-day and continues twelve weeks; the second term begins on the first Thursday in January and continues until Commencement-day, with a Spring Recess—of eight days—including Easter. (See Calendar, p. 6.) The exercises of each term begin with prayers in the Chapel.

PUBLIC WORSHIP

PRAYERS are attended in the Battell Chapel, with reading of the Scriptures and singing, every week-day at 8.10 a. m., at which service the attendance of the students is required.

PUBLIC WORSHIP is held in the Chapel on Sundays, at which all the students are required to attend, except such as have special permission to attend the worship of other denominations, to which their parents belong. Such permission can be obtained only on presenting to the Dean a written request therefor from the parent or guardian.

CHRISTIAN ASSOCIATION—The Yale Young Men's Christian Association is an organization of the students, numbering between seven and eight hundred, whose object is the promotion of Christian fellowship and the furthering of the religious life of the University. Through the generosity of Elbert B. Monroe, Esq. of Southport, Connecticut, the Association occupies a handsome stone building on the college square, called DWIGHT HALL (erected in 1886), in which there is a well-equipped library and reading-room, a large hall for general religious services, and separate rooms for the various class prayer-meetings.

The Dwight-Hall lecture course, the different devotional meetings, the classes in Bible study, and the mission-work carried on by the students, are of great service in the religious development of the University.

LIBRARIES AND READING ROOMS

The Library of the University, containing over 150,000 volumes, is open every week-day to all the students for consultation and for the drawing of books; in a separate part of the building is the Linonian and Brothers Library, a collection of over 30,000 volumes in general literature specially selected for the use of the undergraduate students.

The College Reading Room, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening without charge. There is also a reading room and a select library (partly for circulation and partly for reference) in Dwight Hall.

GYMNASIUM

THE GYMNASIUM is designed to provide all the students with opportunities for exercise, under the advice of a

Director, who is a regularly educated physician. Members of the Freshman class are required, during a part of the year, to take exercise in light gymnastics under the instruction of the Director ; and any student may enter the class of general gymnastics, which is under the Director's immediate care. A thorough physical examination and measurement of each student is made yearly by the Director, and a record of these results is kept as a basis of advice as to exercise and regimen ; an examination of this record shows that the standard of health of the average student improves during his College course.

Members of the other Departments of the University may avail themselves of the privileges of the Gymnasium (including the advice of the Director, the use of the apparatus, bowling alleys, and shower-baths), on the payment to the janitor, in advance, a small fee.

EXPENSES

THE TREASURER'S BILLS are made out and delivered to the students three times a year, viz : at the beginning of each term or half-term, at which times they are payable. If not paid within two weeks of the time they are issued, interest is charged from the date of the bills. A student whose bill for any term or half-term remains unpaid for three months from its date will not be permitted to attend recitations until such bill shall have been paid, and in the annual allotment of College rooms will not be allowed to retain or choose a room. Drafts on Boston, New York, and Philadelphia are received at par.

The annual charge (payable each term in advance) for tuition is one hundred and twenty-five dollars ; of this sum fifty-five dollars is charged for the first term, and fifty dollars for each half of the second term. The charge for incidentals (including ordinary repairs, expenses of public rooms, gymnasium, libraries, and reading room) is thirty dollars ; an additional charge of eighteen dollars is made in the last bill of the Senior year, to cover the expenses of graduation.

ABSENCE ON LEAVE—A student who is absent from College on account of sickness, or for any other cause, and retains his place in his class, pays full tuition during such absence ; such payment is required before the student can be admitted to examination.

BOARD is obtained at prices varying from three and a half to eight dollars a week. The average price is under five dollars and a half.

ROOMS—There are in the College buildings nearly two hundred and fifty rooms occupied by students, at prices varying (according to location) from fifty cents to eight dollars per week. These rooms are not furnished, and the rates charged do not include heat or light.

Farnam Hall (built in 1869-70) is named in commemoration of Henry Farnam, Esq., of New Haven, who bore the chief part of the expense of its erection ; Durfee Hall (built in 1870-71) commemorates in like manner the generosity of Mr. Bradford M. C. Durfee, of Fall River, Mass.; Lawrance Hall (built in 1885-86) owes its name to a gift for this purpose from Mrs. Francis C. Lawrance, of New York City, in memory of her son, Thomas Garner Lawrance, of the Class of 1884, who died during his Senior year in College ; and Welch Hall, which is expected to be ready for use in September, 1892, is the gift of Pierce N. Welch, Esq. (Yale College 1862), of New Haven, in memory of his father, the Hon. Harmanus M. Welch, of this city, who died in 1889.

Students living out of College are not allowed to room in any building in which a family does not reside, except by special permission of the Faculty.

A few rooms in North College and North Middle College (rented at prices ranging from \$1 to \$1.50 per week), and a few others in Durfee, Farnam, and Lawrance Halls (at higher prices), are reserved each year for members of the Freshman class ; these rooms are all heated by steam, for which an additional charge of from twenty-five to thirty dollars per year is made.

Applications for rooms from those who expect to enter the Freshman class in this College in September, 1892, should be sent to Professor Henry P. Wright (the locating officer), not later than June 1. As no single rooms are reserved, every application should be signed by two persons who wish to occupy a room together.

Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another academic year, by making application in writing to the locating officer, on or before Saturday, May 28, 1892. Rooms not reserved will then be offered to the classes in order: choices will be allotted to the Junior class on Tuesday, May 31, and to the Sophomore class on Thursday, June 2.

PRICES PER WEEK OF ROOMS IN COLLEGE FOR 1892

When a room is occupied by two persons, each occupant will be charged with one-half the price named in this schedule.

- \$0.50.—66, 67, 82 North Middle; 188, 189 Old Chapel.
\$0.75.—2, 3, 18 South; 33, 49 South Middle; 65, 68, 81, 84 North Middle; 98, 99, 114 North.
\$1.00.—1, 4, 17, 20 South; 34, 50 South Middle; 79, 95 North Middle; 97, 100, 113, 116 North; 190, 191 Old Chapel.
\$1.25.—46, 47, 62, 63 South Middle; 71, 75, 78, 87, 91, 94 North Middle.
\$1.50.—14, 15, 30, 31 South; 38, 39, 43, 54, 55, 59 South Middle; 74, 77, 80, 90, 93, 96 North Middle.
\$1.75.—7, 11, 22, 23, 26, 27, 29, 32 South; 45, 48, 61, 64 South Middle; 72, 76, 88, 92 North Middle; 103, 106, 107, 110, 111, 119, 122, 123, 126, 127 North.
\$2.00.—6, 10, 13, 16, 24, 25, 28 South; 37, 40, 41, 44, 53, 56, 57, 60 South Middle; 69, 73, 85 North Middle; 101, 104, 105, 108, 109, 112, 125, 128 North; 133, 137, 141, 160, 167, 175 Farnam; 186, 187, 192, 193 Old Chapel.
\$2.50.—8, 9, 12 South; 120, 124 North.
\$3.00.—182, 183 Lyceum.
\$3.50.—142, 143, 158, 159, 161, 162, 176, 177 Farnam; 250, 251, 260, 261, 270, 271, 281 Lawrance.
\$4.00.—130, 131, 138, 139, 144, 145, 146, 147, 154, 156, 157, 164, 165, 172, 173 Farnam; 180 Lyceum.

tending to enter the ministry. There is also a **LOAN FUND**, for the benefit of needy students, which has been constituted from repayments made to the treasury by former students who have received aid during the College course. The College has also a considerable number of scholarship funds, each yielding \$115 a year, the income of which is appropriated to worthy applicants. Those needing aid should apply to the President before November 1st in each year of the College course. No assignments from these funds are made before admission to College.

Assistance will be withdrawn from students who incur serious College censure, or who fail to maintain a reputable scholarship.

THE MORGAN FUND, bequeathed by the late Henry T. Morgan, of New York City, has been set apart by the Corporation, with the provision that the income shall be divided into scholarships (at present thirty-seven in number, yielding \$115 each), to be assigned by the Faculty for the benefit of indigent and deserving students.

THE MARETT FUND, now amounting to over one hundred and thirty-two thousand dollars, which was established by the will of Philip Marett, Esq., of New Haven, in 1869, and was received in 1889, has been appropriated for beneficiary scholarships, in aid of needy and deserving students.

THE CHRISTMAN FUND, amounting to over twenty-two thousand dollars, bequeathed by Joseph A. Christman (Yale College 1857), of New York City, who died in 1888, is devoted to the support of poor and meritorious students.

THE HARMER FOUNDATION OF SCHOLARSHIPS, the proceeds of a bequest in 1854 from Thomas Harmer Johns (Yale College 1818), of Canandaigua, N. Y., comprises five scholarships, each yielding at least one hundred dollars a year, to be given to deserving students of small means.

THE LYON SCHOLARSHIP FUND, of forty-four hundred dollars, given in 1868-72 by Mr. Morris W. Lyon (Yale College 1846), of New York City, benefits four scholars, selected for their worth and need by the founder or the Faculty.

THE LUCIUS HOTCHKISS FUND, of ten thousand dollars, he bequest of Lucius Hotchkiss, Esq., of New Haven, in 1881, comprises four scholarships, the income of which is given to indigent and deserving students.

THE LEAVENWORTH SCHOLARSHIP FUND, now amounting to over ten thousand dollars, was established in 1882 by the late Hon. Elias W. Leavenworth (Yale College 1824), of Syracuse, N. Y., with the primary object of defraying in part the expenses of the education of students of good character and promise, bearing the surname of Leavenworth.

THE HOLMES SCHOLARSHIPS, one in each class in College, founded by Samuel Holmes, Esq., of Montclair, New Jersey, are filled upon the nomination of the Board of Agents of the Silas Bronson Library of Waterbury by students from the towns of Waterbury, Wolcott, Prospect, and Middlebury, Connecticut, who receive each the income of one thousand dollars *per annum*.

There are thirty-four other Scholarship Funds, most of them of one thousand dollars, the income of which may be given to such students as shall be selected by the founders or the Faculty. In this number are included Scholarships named in commemoration of William Allen, Charles Atwater, Mills Bordwell, William S. Charnley, William E. Dodge, Thomas H. and Luther Fuller, Sereno Gaylord, Joel Hawes, John C. Holley, Charles L. Ives, Elisha C. Jones, William A. Macy, John S. Mitchell, Peter Parker, John M. Raymond, John Spaulding, and James M. Whiton.

There are also opportunities for students in need of aid to render service to the College as monitors, etc.; in this way about a thousand dollars is disbursed annually. And in general it may be said that the other means of self-help at the command of students are sufficient to enable many of those who have spare time to provide for the larger part of their College expenses.

By the liberality of Mr. William L. Andrews, of New York City, and as a memorial of his son, Loring W. Andrews, of the class of 1883, a well furnished library has

been established, containing text-books and works of reference, to be loaned gratuitously to those students who have need to avoid the expense of purchasing books. Permission to use this library is obtained from the President.

FELLOWSHIPS AND SCHOLARSHIPS

THE DOUGLAS FELLOWSHIP, with an income of six hundred dollars a year, was founded in 1873, by Mrs. Samuel Miller, of New Haven, and named in memory of her brothers, the Rev. Sutherland Douglas (Y. C. 1822) and George H. Douglas (Y. C. 1828). The incumbent, who must be a recent graduate of this Department, pursuing non-professional studies in New Haven, is elected annually, but no person shall hold the Fellowship for more than three years.

THE SOLDIERS' MEMORIAL FELLOWSHIP, with an annual income of six hundred dollars, was founded in 1875 by Mrs. Theodosia D. Wheeler, of New Haven, in honor of the alumni who fell in battle as Union soldiers, in the war of 1861-1865, and in special remembrance of William Wheeler, of the Class of 1855. The incumbent must be, at the time of his election, a graduate of this Department, of not more than three years' standing. He shall pursue non-professional studies, and may hold the Fellowship for a period not exceeding five years. In selecting the incumbent, the President and Professors are to give preference to one who has shown special proficiency in Greek; and for the further prosecution of Greek study, the Fellow may be allowed to spend a part or the whole of the time of his incumbency in Athens, in connection with the American School of Classical Studies, instead of in New Haven.

THE SILLIMAN FELLOWSHIP, founded in memory of Professor Benjamin Silliman, Professor of Chemistry, Mineralogy, and Geology in Yale College from 1802 until his death in 1864, has an annual income of six hundred dollars, and is awarded to a graduate of this Department who has given evidence of proficiency and promise in some branch

of physical science. The incumbent is elected annually, but no person shall hold the Fellowship for more than three years.

THE JOHN SLOANE FELLOWSHIP in Physics, established in 1889 by the gift of ten thousand dollars from John Sloane, Esq., of New York City, is awarded annually by the Faculty to a graduate of this Department who has shown marked proficiency in the study of Physics, and gives promise of success in the prosecution and application thereof. The incumbent shall reside in New Haven for at least thirty-six weeks in each academic year, pursuing a course of study in Physics and the related branches of science, and acting as an assistant in the Sloane Physical Laboratory; he may be re-elected, but shall not hold the Fellowship for more than three consecutive years.

THE BERKELEY SCHOLARSHIP, founded in 1733 by the Rev. George Berkeley, Dean of Derry, and afterwards Bishop of Cloyne, Ireland, and yielding over sixty dollars a year, is awarded to the student in each Senior class who passes the best examination (which must be a creditable one) in the Greek Testament (Pauline Epistles), the first book of Thucydides, the first six books of Homer's Iliad, Cicero's Tusculan Questions, Tacitus (except the Annals), and Horace; provided he remain in New Haven as a graduate, one, two, or three years.

THE CLARK SCHOLARSHIP, being the income of a fund of two thousand dollars, given for this purpose by Mr. Sheldon Clark, of Oxford, Connecticut, is awarded in each Senior class to the applicant who has attained the highest rank in the studies of the course; provided he remain in New Haven for one year or two years immediately after graduation, pursuing a course of study (not professional) under the direction of the Faculty.

THE BRISTED SCHOLARSHIP, founded in 1848 by Mr. Charles Astor Bristed (Yale College 1839), of New York City, and yielding about \$100 a year, is awarded, whenever there is a vacancy, to the student in the Sopho-

more or Junior class who passes the best examination in the classics and mathematics. The successful candidate receives the annuity (forfeiting one-third in case of non-residence) until the end of the third year after graduation.

THE FOOTE SCHOLARSHIPS, founded in 1872 by a bequest of Harry W. Foote (Yale College 1866), of New Haven, and yielding five hundred dollars a year, are awarded annually to graduates of this Department, selected by the Corporation, who remain in New Haven for one or more years pursuing studies in the graduate courses of the Department of Philosophy and the Arts.

THE LARNED SCHOLARSHIPS, three in number, each having a fund of seven thousand dollars, were founded in 1877 by the bequest of Mrs. Irene Larned, of New Haven, and were augmented in 1888 by the bequest of Mrs. Urania B. Humphrey, of Norfolk, Connecticut. One scholarship is awarded in each Senior class; the incumbent must reside in New Haven, pursuing a course of advanced study under the direction of the Faculty.

THE MACY SCHOLARSHIP, being the income of a fund of ten thousand dollars, derived from a bequest of the Rev. William A. Macy (Yale College 1844), of Shanghai, China, who died in 1859, is awarded, whenever there may be a vacancy, to a recent graduate of distinguished scholarship, who may hold it for a term of three years. He shall reside in New Haven, pursuing a course of non-professional study, and shall at the close of each College year present a meritorious thesis in evidence of his work during the previous year.

THE WOOLSEY SCHOLARSHIPS, each having the income of a fund of one thousand dollars, the gift of President Woolsey, in 1846-48, are awarded in successive years, one to the student in each Freshman class, who passes the best examination in Latin Composition (excellence in which is essential to success), in the Greek of the year, and in the solution of algebraic problems. The successful candidate receives the annuity, during the four years of his College

course, provided he maintains a good standing in character and scholarship, and in the Junior year makes himself acquainted with the Differential and Integral Calculus. The student who stands second at this examination receives for one year the income of the HURLBUT SCHOLARSHIP FUND, of one thousand dollars (established by Henry A. Hurlbut, Esq., of New York City, in 1858-9); and the student who stands third, the income for one year of the THIRD FRESHMAN SCHOLARSHIP FUND, of the same amount, given by Charles M. Runk, Esq., of Allentown, Pennsylvania, in 1864.

THE W. W. DEFOREST SCHOLARSHIP, being the income of a fund of two thousand dollars, bequeathed in 1867 by William Wheeler DeForest, of New York City, is awarded to a student in each Senior class who has attained distinction in the study of French while in College, provided he pursue for the year after graduation a further course of study in the modern languages, especially French, Spanish, Portuguese, or Italian, under the direction of the Faculty.

THE SCOTT HURTT SCHOLARSHIP was established in 1889 in memory of Scott Hurtt, of the class of 1878, Yale College, by his classmates and friends. The income of a fund of five thousand dollars is assigned in June of each year to a member of the Sophomore class, who is selected by the Faculty on the ground of approved scholarship; one half of the income will be paid to the incumbent during his Junior year, and one-half during his Senior year, provided he continues to be in need of this assistance.

THE THOMAS GLASBY WATERMAN FUND, of forty thousand dollars, was received in 1890 from the estate of Thomas G. Waterman (Yale College 1886). The income is given to not more than three scholars, of manly character and limited means, who have distinguished themselves in their studies and give promise of achieving distinction in the line of work which they have chosen; the incumbents are elected annually by the Faculty from the Senior

or Junior class, or from graduates of the Department of not more than two years' standing.

PREMIUMS

THE DEFOREST PRIZE, founded in 1823 by David C. DeForest, of New Haven, and consisting of a gold medal, of the value of one hundred dollars, is awarded "to that scholar of the Senior class who shall write and pronounce an English Oration in the best manner," the President and Professors being judges.

TOWNSEND PREMIUMS, five in number, of twelve dollars each, founded in 1843 by the gift of Isaac H. Townsend (Yale College 1822), of New Haven, are awarded in each Senior class for the best specimens of English Composition; all compositions receiving Premiums must be read in public.

THE DEFOREST MATHEMATICAL PRIZES were established by the late Dr. John DeForest (Yale College 1826), and were augmented by his son, the late E. L. DeForest (Yale College 1854), of Watertown, Connecticut. A first prize of one hundred dollars, and three second prizes of fifty dollars each, are offered to the Senior Class for worthy solutions of problems in pure and applied Mathematics. This year about sixty dollars from the same source will be offered in prizes to the Junior, Sophomore, and Freshman classes respectively, for the solution of problems.

WINTHROP PRIZES, the income of a fund of five thousand dollars given in 1871 by Buchanan Winthrop, Esq. (Yale College 1862), of New York City, are annually offered to the Junior class "for the most thorough acquaintance with the Greek and Latin poets," particular attention being paid to elegance of scholarship and appreciation of the spirit of the poetry, as shown at an examination during the latter half of the second term. The first prize is two hundred dollars, and the second prize is the balance of the income for the year.

The subjects for the examination in the class of 1893 are as follows: in Greek, the Agamemnon, Eumenides,

Persians, and Prometheus of Aeschylus, and the Olympian Odes of Pindar; in Latin, Lucretius, Book ii, the first Book of the Epistles of Horace, and the Satires of Persius.

THE HENRY JAMES TENEYCK PRIZES, the income of a fund of twenty-six hundred dollars, established in 1888 by the Kingsley Trust Association in memory of Henry James TenEyck (Yale College 1879), are awarded to the successful competitors at the Junior Exhibition, in the second term of each year.

THE C. WYLLYS BETTS PRIZE, established in 1890 by the Phelps Association, in memory of the late C. Wyllys Betts, Esq., of New York City, a graduate of Yale College in the class of 1867, is offered to the Sophomore class for excellence in English Composition. The prize, being the income of a fund of one thousand dollars, is awarded annually to that member of the class who shall have exhibited the most meritorious work in the required compositions of the year and in a special essay on a prescribed subject.

COLLEGE PREMIUMS are given each year in the Sophomore class for Declamation.

THE SCOTT PRIZE for excellence in German is offered to the Senior and Junior classes, and the SCOTT PRIZE for excellence in French to the Junior class; these are of the value of thirty dollars each, and are given in books. The prizes were founded by the bequest of Henry W. Scott (Yale College 1863), of Philadelphia, who died in 1871.

THE LUCIUS F. ROBINSON LATIN PRIZES, from the income of a fund of five thousand dollars given in 1887 by the daughters of the late Lucius F. Robinson (Yale College 1843), of Hartford, will be awarded the present year to students showing special proficiency in Latin:—one series of prizes (of fifty, thirty, and twenty dollars, respectively) being open to members of the Senior and Junior classes who have taken three hours per week in Latin electives; and a second series, of the same amounts, to members of the Sophomore class.

BERKELEY PREMIUMS for excellence in Latin Composition are offered to the Freshman class near the end of each College year, from the surplus income of the Berkeley Scholarship Fund.

THE HUGH CHAMBERLAIN GREEK PRIZE, being the income of one thousand dollars given for this purpose, in 1886, by the Hon. Daniel H. Chamberlain (Yale College 1862), of New York City, is awarded annually to that member of the Freshman class who has passed the best examination in the Greek required for admission to College. Candidates for this Prize will be required to pass the whole examination in Greek the year of their admission to College, even though they may have been accepted already in some of the Greek subjects at a preliminary examination.

DEGREES

The degree of BACHELOR OF ARTS is conferred by the Corporation on those persons who have completed the course of academical exercises, as appointed by law, and have been approved on examination at the end of the course as candidates for the same. Candidates are required to pay their dues to the Treasurer as early as the Saturday before Commencement.

For the degrees of Master of Arts and Doctor of Philosophy, see page 114-15.

SHEFFIELD SCIENTIFIC SCHOOL

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PERCY F. SMITH, PH.D., *Instructor in Mathematics*
WILLIAM A. SETCHELL, PH.D., *Assistant in Biology*
EDWIN H. LOCKWOOD, PH.B., *Instructor in Drawing and Mechanism*
IRVING FISHER, PH.D., *Instructor in Astronomy*
ARTHUR C. ALEXANDER, PH.B., *Assistant in Physics*
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GEORGE P. STARKWEATHER, PH.B., *Assistant in Drawing*
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THE SHEFFIELD SCIENTIFIC SCHOOL is devoted to instruction and researches in the mathematical, physical, and natural sciences, with reference to the promotion and diffusion of science, and also to the preparation of young men for such pursuits as require special proficiency in these departments of learning. Instruction is also given in French, German, English, History, Political Economy, and Constitutional Law.

The school, begun in 1847, and reorganized upon a more extensive scale in 1860, received in 1863, by the act of the Connecticut Legislature, the national grant for the promotion of scientific education under the Congressional enactment of July, 1862, and thus became the College of Agriculture and the Mechanic Arts for Connecticut.

The name was conferred upon it by the Corporation of the University as a recognition of the late Joseph E. Sheffield, Esq., whose gifts to it at various times constitute its chief property and endowment.

OFFICERS AND INSTRUCTORS—Upon the Governing Board, consisting of the professors permanently attached to the School, devolve its internal management and the greater part of the instruction. In addition to these and the instructors employed during the current year, Professor

Niemeyer, of the Yale School of the Fine Arts, gives instruction in Elementary and Free-hand Drawing.

THE BOARD OF STATE VISITORS consists of the Governor, the Lieutenant-Governor, three Senior Senators, and the Secretary of the Board of Education.

The instruction is intended for two classes of students:—

I.—Graduates of this and other Colleges or Universities, and other persons qualified for advanced or special study.

II.—Undergraduates who desire a training, chiefly mathematical and scientific, in part linguistic and literary, for higher scientific studies, or for other occupations to which such training is suited.

INSTRUCTION FOR GRADUATE AND SPECIAL STUDENTS

Persons who have gone through undergraduate courses of study, here or elsewhere, may avail themselves of the facilities of the School for more special professional training in the physical sciences and their applications, gaining in one, two, or three years the degree of BACHELOR OF PHILOSOPHY, or in two additional years of Engineering study, that of CIVIL ENGINEER or that of DYNAMIC or MECHANICAL ENGINEER.

Or, engaging in studies of a less exclusively technical character, they may become candidates for the degree of DOCTOR OF PHILOSOPHY, under the conditions stated on page 112. The instruction in such cases will be adapted to the particular needs and capacities of each student, and may be combined with that given by instructors in other departments.

SPECIAL STUDENTS—For the benefit of those who, being fully qualified, desire to pursue particular studies without reference to obtaining a degree, special or irregular students are received in most of the departments of the School; not, however, in the Select Course, nor in the Freshman Class. It should be distinctly understood that these opportunities are not offered to persons who are incompetent to go on with regular courses, but are designed to aid those

who have received a sufficient preliminary education elsewhere to increase their proficiency in special branches.

INSTRUCTION FOR UNDERGRADUATE STUDENTS

TERMS OF ADMISSION—Candidates must be not less than fifteen years of age, and must bring satisfactory testimonials of moral character from their former instructors or other responsible persons.

For admission to the Freshman Class the student must pass a thorough examination in the subjects mentioned below. Certificates of standing elsewhere are not accepted in place of this examination, but it is desirable that each candidate should submit a statement from his principal instructor, showing definitely the ground covered by his preparatory studies. The subjects required for the full entrance examination are as follows :

English Grammar—Whitney's Essentials of English Grammar, or an equivalent.

History of the United States.

Geography.

Latin—(1) Simple exercises in translating English into Latin, together with the elements of Latin Grammar. (2) Caesar—four books of the Gallic War. (3) Vergil—the first two books of the Aeneid. For these four books of Caesar and two of Vergil's Aeneid, no equivalent will be accepted, without special application. The examination on any equivalent so offered and accepted must take place in New Haven.

Arithmetic—Fundamental Operations, Least Common Multiple, Greatest Common Divisor, Common and Decimal Fractions, Denominate Numbers, including the Metric System of Weights and Measures ; Percentages, including Interest, Discount, and Commission ; Proportion, Extraction of the Square and Cube Roots.

Algebra—Fundamental Operations, Fractions, Equations of the First Degree, with one or several unknown quantities ; Inequalities, Ratio and Proportion, Powers and Roots, including the theory of Exponents, the Binomial Formula for an Entire Exponent, and the transformation and Reduction of Radicals ; Equations of the Second Degree, Progressions, Continued Fractions, Permutations and Combinations, the Doctrine of Limits, the Nature of Series, the Method of Indeterminate Coefficients, Fundamental Properties of Logarithms, Compound Interest, and Annuities.

Geometry—Plane, Solid, and Spherical; including fundamental notions of Symmetry, and examples of Loci and Maxima and Minima of Plane Figures,—so much, for example, as is contained in Newcomb's *Geometry*, exclusive of the chapters on the Ellipse, Hyperbola, and Parabola.

Trigonometry—including the Analytical Theory of the Trigonometrical Functions, and the usual formulae; the Construction and Use of Trigonometrical Tables; and the Solution of Plane Triangles:—so much, for example, as is contained in the first six chapters of Newcomb's larger *Trigonometry* and in Articles 75-78 of chapter viii, with the explanation of the first five tables in Newcomb's five-figure Logarithmic and Trigonometric Tables, which are furnished at the examinations in New Haven.

While no entrance examination is held in the *History of England*, candidates for admission are urgently advised to make themselves as familiar as possible with that subject, as a knowledge of it is essential to the most successful prosecution of some of the studies of the course.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations, that is, either in June or September, of the first year for examination in the following subjects or parts of subjects: *History of the United States, English Grammar, Geography, Arithmetic, Plane Geometry, and Algebra to Quadratic Equations*. Each candidate must submit a definite statement from his principal instructor that he is authorized to take the preliminary examination.

In order to have this preliminary examination counted, candidates must pass satisfactorily on four of the subjects; and notice of the intention to divide the examination must be given to Professor George J. Brush, Director of the School, on or before June 15. Under no circumstances will a candidate at the preliminary examination be allowed to offer any subject additional to those contained in the above list.

In his preparation in GEOMETRY, the candidate should, as far as practicable, have suitable exercises in proving simple theorems and in solving simple problems for himself. It is important, too, that he

should be accustomed to the numerical application of geometric principles, and especially to the prompt recollection and use of the elementary formulæ of mensuration. In TRIGONOMETRY he should be exercised in applying the usual formulæ to a variety of simple reductions and transformations, including the solution of trigonometrical equations. Readiness and accuracy in trigonometrical calculations are also of prime importance to the candidate. If the use of logarithms is postponed in his preparation till Trigonometry is taken up (which is by no means necessary or advisable), he should then have abundant applications of them to all forms of calculation occurring in ordinary practice, as well as to those appearing in the solution of triangles. Finally, in all his calculations, he should study the art of neat and orderly arrangement.

In LATIN, the student should have such continued training in parsing as shall make him thoroughly familiar with declensions and conjugations, and with the leading principles of syntax. To secure these results more effectually, the requirement has been adopted of simple exercises in translating English into Latin. As this course of exercises is designed solely as a preparation for reading, it should be begun at the earliest stage of Latin study. A very large proportion of the deficiencies in the Latin examination for several years past has been due to the neglect of the suggestions of this paragraph, and to the attempt to read a Latin author with totally inadequate grammatical preparation.

The regular examination for admission for 1892 will be held in New Haven at North Sheffield Hall, on Thursday, Friday, and Saturday, June 30, July 1, 2 (beginning at 9 A. M. on Thursday).

In 1892, examinations (for the Freshman Class only) will also be held in Concord and Exeter, N. H., in Andover, Mass., in Norwich, Conn., in New York City, in Albany, in Buffalo, in Chicago, in Cleveland, in Cincinnati, and in San Francisco (beginning on Thursday, June 30, at 9 A. M.), at places to be announced in local newspapers of the day previous. Candidates who propose to be present are requested to send their names to Professor George J. Brush, Director of the School, before June 15. A fee of five dollars will be charged for admission to the examinations outside of New Haven.

A second examination is held, *in New Haven only*, at the beginning of the college year, on Tuesday and Wednesday

(September 27, 28, 1892). Candidates for this examination must be present at North Sheffield Hall at 9 A. M. on Tuesday.

In general, examinations for admission to the Freshman Class of the *next* year can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

Candidates for advanced standing in the undergraduate classes are examined, in addition to their preparatory studies, in those already pursued by the class which they wish to enter. No one can be admitted as a candidate for a degree, later than at the beginning of the Senior year.

COURSES OF INSTRUCTION, occupying three years, are arranged to suit the requirements of various classes of students. The first year's work is the same for all; for the last two years, the instruction is chiefly arranged in Special Courses. The Special Courses most distinctly marked out are the following :

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|---|----------------------------|
| (a.) In Chemistry; | (b.) In Civil Engineering; |
| (c.) In Mechanical Engineering; | |
| (d.) In Agriculture; | (e.) In Natural History; |
| (f.) In Biology preparatory to Medical studies; | |
| (g.) In studies preparatory to Mining and Metallurgy; | |
| (h.) In select studies preparatory to other higher studies. | |

The arrangement of studies is indicated in the annexed scheme. A fuller statement of the methods and character of the instruction will be found below, p. 94. Unless otherwise specified, the number of hours given means hours per week.

FRESHMAN YEAR: INTRODUCTORY TO ALL THE COURSES

FIRST TERM:—*German*—Whitney's Grammar and Reader, 3 hrs. *English*—Lounsbury's History of the English Language, 1 hr.; Exercises in composition. *Mathematics*—The Derivatives of Algebraic Functions; Fundamental Properties of Equations; Plane Analytical Geometry; 3 hrs. *Physics*—Recitations, 2 hrs.; experimental lec-

tures, 2 hrs. *Chemistry*—Mixer's; Recitations, 2 hrs.; laboratory practice, 2 hrs. *Elementary Drawing*—Practical lessons in the Art School, 3 hrs.

SECOND TERM:—*Language, Physics, and Chemistry*—as stated above. *Mathematics*—Plane Analytical Geometry, continued, 3 hrs. *Physical Geography*—8 Lectures during the term. *Botany*—Gray's Lessons, 3 hrs. *Drawing*—Principles of Orthographic, Isometric, and Oblique Projection; Intersection and Development of Surfaces; Outlines of Shadows; Shading and Tinting; Elements of Perspective; Examples of various applications of Instrumental Drawing; 3 hrs.

NOTE. The Freshman class is divided, as soon as practicable, into several divisions according to scholarship, and an opportunity to make rapid progress is thus given to the more proficient.

For the Senior and Junior years, the students select for themselves one of the following Courses:

(a.) IN CHEMISTRY:

JUNIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Recitations, 2 hrs.; Laboratory Practice, 20 hrs.; Blowpipe Practice and Determinative Mineralogy, 4 hrs. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Quantitative Analysis*—Laboratory Practice, 20 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and determination of species, 4 hrs.; Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Recitations and Lectures, 2 hrs. *Agricultural Chemistry*—Recitations (optional), 2 hrs. *Quantitative Analysis*—20 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—Lectures, 2 hrs. *French*—2 hrs.

SECOND TERM:—*Theoretical Chemistry*—Lectures, 2 hrs. *Zoology*—continued, 2 hrs. *Agricultural Chemistry*—(optional), 2 hrs. *Chemistry*—Analysis of Minerals and Technical Products, or experimental work in Organic Chemistry, 20 hrs. *Assaying*—(optional). *Metallurgy*—Lectures (optional). *Geology*—Dana's, 3 hrs. *Mineralogy*—(optional). *French*—2 hrs.

The Laboratory Practice of the second term of the Senior year may be devoted to such special branches of Analytical or Organic Chemistry as the student may desire, or to original investigations in connection with theses.

(b.) IN CIVIL ENGINEERING:

JUNIOR YEAR:

FIRST TERM:—*Mathematics*—Analytical Geometry of Three Dimensions; Elements of the Theory of Functions; Differential Calculus, with applications to Geometry and Analysis; Solution of Numerical Equations; 6 hrs. *Surveying*—Field work, 16 hrs. till November. *Drawing*—Descriptive Geometry, 8 hrs. from November. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Mathematics*—Integral Calculus with applications to Geometry; Rational Mechanics; 6 hrs. *Drawing*—Descriptive Geometry, concluded; Topographical drawing; Practice in working drawings; 6 hrs. *Surveying*—Topographical and Railroad curves, 16 hrs. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Field Engineering*—Location of line of Railroad, setting out slope-stakes, calculation of earthwork; Lectures on economic location; Office-work; Henck's Field-Book; 20 hrs. till November. *Civil Engineering*—Mechanics applied to Engineering; Resistance of Materials; Bridges and Roofs; Stone Cutting with Graphical Problems; 8 hrs. *Geology*—Recitations, 3 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 8 hrs. *French*—2 hrs.

SECOND TERM:—*Civil Engineering*—Bridges and Roofs; Building Materials; Stability of Arches and Walls; Foundations; 6 hrs. *Dynamics*—Principles of Mechanism; Thermodynamics; Steam Engine; 6 hrs. *Hydraulics*—Hydraulics and Hydraulic Motors, 3 hrs. *Drawing*—Designing; Practical Problems; Specifications and Estimates; 12 hrs. *Spherical Trigonometry and Astronomy*—Practical Astronomy, with field work, 6 hrs. *Geology*—3 hrs. *French*—2 hrs.

(c.) IN MECHANICAL ENGINEERING:

JUNIOR YEAR:

FIRST TERM:—*Mathematics*—Analytical Geometry of Three Dimensions; Elements of the Theory of Functions; Differential Calculus, with applications to Geometry and Analysis; Solution of Numerical Equations; 6 hrs. *Surveying*—Theory and Practice; 3 hrs. until November 1st. *Principles of Mechanism*—Kinematics, 1 hr. *Shop Visiting*—Study of Machine Details and Tools; 3 hrs., beginning when Surveying ends. *Drawing*—Descriptive Geometry, 3 hrs. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Mathematics*—Integral Calculus, with applications to Geometry; Rational Mechanics; 6 hrs. *Principles of Mechanism*—Applied Kinematics; Forms of Teeth of Wheels; Cams; Parallel

Motions; Transmission of Power by Belts and Gearing, etc.; 1 hr. until Spring recess, then 2 hrs. *Shop Visiting*—continued, 3 hrs. until Spring recess. *Study of the Steam Engine*—2 hrs. after Spring recess. *Drawing*—Machine Elements and Mechanical Movements; 4 hrs. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Applied Mechanics*—Friction; Moment of Inertia; Centrifugal Force; Elasticity and Strength of Materials; Theory of Flexure and Torsion; Strains in Structures; Construction of Roofs and Bridges; Equilibrium and Pressure of Fluids; Theory of Flotation; Flows of Fluids in Pipes and Channels; Resistance of Ships; 8 hrs. *Machine Designing*—Practical Exercises in Designing Machine Details and Simple Machines, 8 hrs. *Study of the Steam Engine*—continued, 2 hrs. *Electricity* (optional)—Laboratory work, 3 hrs. *Visits of Inspection*—Examination of Machinery in operation; Reports of Visits. *French*—2 hrs.

SECOND TERM:—*Applied Mechanics*—continued; Hydrodynamics; Theory of Water-Wheels and Turbines; 6 hrs. *Thermodynamics*—3 hrs. *Study of the Steam Boiler*—2 hrs. *Electricity* (optional)—Laboratory work, 3 hrs.; Lectures, 2 hrs. *Machine Designing*—continued; advanced exercises in Preparing Designs and Working Drawings for Machinery; Estimates of Weight and Cost of Machinery; 8 hrs. *French*—2 hrs. *Thesis. Visits of inspection and Reports.*

(d.) IN AGRICULTURE:

JUNIOR YEAR:

The course is identical with that in Chemistry, except that in the second term lectures in Crystallography and Descriptive Mineralogy are omitted, and in the Spring half-term Botany is substituted for Determinative Mineralogy.

SENIOR YEAR:

FIRST TERM:—*Agriculture*—Recitations, 2 hrs. *Agricultural Chemistry*—Recitations, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—Lectures, 2 hrs. *Meteorology*—Lectures, 2 hrs. *Botany*—Laboratory Practice, 5 hrs. *French*—Recitations, 2 hrs.

SECOND TERM:—*Agriculture*—Recitations or Lectures, 2 hrs. *Agricultural Chemistry*—Recitations, 2 hrs. *Physiology*—Recitations and Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Heredity and Stock-Breeding*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science and Public Health*—Lectures, 2 hrs. during Spring half-term. *French*—2 hrs.

(e.) IN NATURAL HISTORY:

Either Mineralogy, Zoology, or Botany, may be made the principal laboratory study, some attention in each case being directed to the other branches of Natural History.

JUNIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 20 hrs; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *Botany*—Gray's Manual, 3 hrs.; Laboratory Practice, 3 hrs. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Zoology*—Laboratory Practice, 6 to 12 hrs.; Recitations; Excursions (land and marine). *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. *Physiology*—Recitations and lectures, 2 hrs. *Organic Chemistry*—2 hrs. *Embryology*—Lectures. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Physical Geography*—4 hrs. during Winter half-term. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Geology*—Recitations, 3 hrs.; Excursions. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Lectures, 2 hrs.; Recitations, 4 hrs.; Excursions. *Botany*—Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-structure and of the Anatomy of the higher Cryptogamous Plants, 5 hrs.; Excursions. *Meteorology*—Lectures, 2 hrs. *French*—2 hrs.

SECOND TERM:—*Geology*—Recitations, 3 hrs. *Anatomy of Vertebrates*—Huxley's, 2 hrs. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Recitations, 4 hrs.; Lectures, 2 hrs. *Botany*—Herbarium Studies, especially in the Cryptogamous Orders; Botanical Literature; Essays in Descriptive Botany. *Sanitary Science, Laws of Heredity, and Principles of Breeding*—Lectures. *French*—2 hrs.

Besides the regular course of recitations and lectures on structural and systematic Zoology and Botany, and on special subjects, students are taught in the laboratories to prepare, arrange, and identify collections, to make dissections, to pursue investigations, and when sufficiently advanced, to describe genera and species in the language of science. For these purposes, large collections in Zoology belonging to the University are available, as are also the private botanical collections of Professor Eaton.

(f.) IN BIOLOGY PREPARATORY TO MEDICAL STUDIES:

JUNIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 20 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Comparative Anatomy and General Biology*—Laboratory Practice, 18 hrs.; Lectures and Recitations, 1 hr. *Physiology*—Huxley's; Recitations, 2 hrs. *Embryology*—8 Lectures during the term. *Organic Chemistry*—continued, 2 hrs. *Mineralogy*—continued through Winter half-term, 4 hrs. *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous plants, 5 hrs. during Spring half-term. Excursions. *French*—2 hrs. *German*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Physiological Chemistry and Physiology*—Recitations and Lectures, 3 hrs.; Laboratory Practice, 13 hrs. *Organic Chemistry*—Lectures and Recitations, 2 hrs. *Zoology*—Lectures, 2 hrs. *Botany*—Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-structure, and of the Anatomy of the higher Cryptogamous Plants, 5 hrs. *Geology*—Recitations, 3 hrs. *French*—2 hrs.

SECOND TERM:—*Physiological Chemistry, Physiology, and Experimental Toxicology*—Illustrative Lectures, Recitations, and Laboratory Practice, 27 hrs. *Theoretical Chemistry*—2 hrs. during Winter half-term. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Sanitary Science*—Lectures, 2 hrs. during Spring half-term. *Laws of Heredity and Principles of Breeding*—Lectures, 2 hrs. during Winter half-term. *French*—2 hrs.

(g.) IN STUDIES PREPARATORY TO MINING AND METALLURGY:

Young men desiring to become Mining Engineers can pursue the regular Course in Civil or Mechanical Engineering, and at its close can spend a fourth year in the study of Metallurgical Chemistry, Mineralogy, etc.

(h.) IN THE SELECT STUDIES PREPARATORY TO OTHER HIGHER STUDIES:

JUNIOR YEAR:

FIRST TERM:—*Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 8 hrs. *Astronomy*—Recitations, 4 hrs. *English*—Early English, 2 hrs. *History*—Gardiner's Student's History of England, 2 hrs. *French*—3 hrs. *German*—3 hrs.

SECOND TERM:—*Mineralogy*—Lectures; Laboratory work, 8 hrs. during Winter half-term. *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. during Spring half-term. *Physical Geography*—4 hrs. during Winter half-term; Recitations from Guyot and Lectures. *English*—Chaucer, Bacon, Shakspeare, 2 hrs. during Winter half-term, 3 hrs. during Spring half-term. *History*—Gardiner's History, continued, 2 hrs. during Winter half-term, 4 hrs. during Spring half-term. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Geology*—Recitations, 3 hrs.; Excursions. *Zoology*—Lectures, 2 hrs. *English*—Shakspeare, 2 hrs. *Meteorology*—Lectures, 2 hrs. *Constitutional Law*—4 hrs. *French*—2 hrs.

SECOND TERM:—*Geology*—continued, 3 hrs. *Zoology*—continued, 2 hrs. during Winter half-term. *Meteorology*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science*—Lectures, 2 hrs. during Winter half-term. *Political Economy*—Recitations, Exercises, and Lectures, 4 hrs. *English*—Shakspeare, Milton, Dryden, Pope, Gray, and later authors, 3 hrs. *French*—2 hrs.

Exercises in English Composition are required during the entire course from all the students. The preparation of graduating theses is among the duties of the Senior year.

Lectures and instruction in Military Science are annually given to the Senior class by the Professor of Military Science and Tactics.

The following account of the various subjects specified in the above scheme will explain the character and aim of the instruction.

ELEMENTARY CHEMISTRY—The exercises in Elementary Chemistry consist in recitations from a text-book, and experiments by the students in the laboratory to illustrate statements in the book. The object of the laboratory work is to facilitate the study of the subject, and to train the students in manipulation and in the observation of chemical phenomena. Notes are required, and students are questioned on the experiments.

ANALYTICAL CHEMISTRY—*Qualitative and Quantitative*—This study is intended to serve two purposes. Analytical Chemistry is used by the advanced student as a means of investigation in scientific or technical

researches. The beginner, however, derives from its study advantages of another kind. The knowledge of the properties of chemical compounds, the familiarity with chemical reactions gained by experience in the laboratory, and the development of the reasoning faculties by the application of this knowledge in analytical processes, enable the student to generalize and classify chemical phenomena, and aid him to understand the more abstract theories of chemical philosophy. The method of instruction adopted is conformed to this view of the uses of the study. Text-books are used and recitations are required, but the more important part of both study and instruction is performed in the laboratory. In order to solve the problems which are there constantly presented, the student, aided by books and instructors, must learn both principles and their applications. The student, throughout his course in Analytical Chemistry, spends four consecutive hours in laboratory work during five days of the week. The laboratory, however, is kept open seven hours daily for the benefit of graduate students and others who desire to devote more time to this study.

* Qualitative Analysis forms a part of the courses in Chemistry, Biology, Agriculture, and Natural History. Quantitative Analysis is one of the more important studies of the Senior year in the Chemical Course. It is also included to some extent in the Agricultural Course.

ORGANIC CHEMISTRY is taught by informal lectures and experimental illustrations as well as by text-book drill, a lesson from Bernthsen's Organic Chemistry being given out for each instruction-hour. The class has two exercises weekly throughout the year. The course is adapted to give a fairly complete outline of the subject and some familiarity with the more important bodies and classes of bodies.

In addition to this, the Senior students in the Chemical Course are required to spend twenty hours per week during the latter-half of the first term in experimental work in Organic Chemistry. This is intended to supplement the preceding course, and at the same time to serve as a preliminary training for such students as desire to make a special study of Organic Chemistry.

Opportunity is also afforded for the carrying on of original investigations in this subject, either in connection with theses, or as a part of the regular work in the case of advanced students.

PHYSIOLOGY—Elementary Physiology is taught by text-book recitations and demonstrations, being designed especially for Junior students in the Biological course. In Senior year, particular attention is paid to the physiology of digestion and nutrition in connection with the study of Physiological Chemistry. Opportunity is likewise afforded for experimental work in certain lines of pure Physiology.

PHYSIOLOGICAL CHEMISTRY and EXPERIMENTAL TOXICOLOGY—Physiological Chemistry is taught by laboratory exercises, illustrative lectures, and recitations. Each student is provided with a suitable working place in the laboratory, well equipped with all needed apparatus and material. The regular course of work, designed especially for Senior students in the Biological Course, extends throughout one year and embraces a thorough study of the chemical composition of the various tissues and fluids of the body, together with a study of the chemical and physiological processes of respiration, digestion, secretion, excretion, and nutrition in general.

Beginning with a study of the albuminous bodies, the experimental work extends through the epithelial, connective, contractile, and nerve tissues. Proceeding then to digestion, the various digestive fluids are studied, artificial digestions are made, and the several products of digestive action isolated and studied. The blood and urine are next considered, and students are taught to make both qualitative and quantitative analyses of the latter and to identify abnormal constituents. A portion of one term is also devoted to a study of the chemical reactions of the more important mineral and organic poisons, and their physiological action is determined experimentally. Students are also taught how to separate poisons from organic tissues and fluids, and to identify them, both by chemical and physiological reaction. During the latter half of the second term, Senior year, opportunity is afforded for the carrying on of original investigations on some selected subject in either physiological chemistry or toxicology, in connection with the preparation of graduating theses. The course of work is particularly recommended to students intending to enter upon a course of medical studies.

COMPARATIVE ANATOMY and GENERAL BIOLOGY are taught by laboratory work, lectures, and frequent examinations. The regular course of instruction, intended especially for Juniors in the Biological Course, extends through the second term, and is designed to give the student the mental and manual training in the methods of investigation by which the facts and principles of these sciences have been established, and at the same time to give him a sufficient knowledge of their elements to enable him to pursue with profit the more special studies which follow.

The course begins with the general anatomy of the vertebrate type, in connection with the study of Elementary Physiology. Dissections of the frog and mammal are made under the immediate supervision of the instructor, and the student is required to make careful sketches and records of his work, which is supplemented by demonstrations and informal lectures. Some of the simpler forms of plants and animals

are next studied microscopically, the methods of microscopical investigation taught, and the general facts of cell-structure illustrated. The histology of the higher animals is then studied in more detail, microscopical preparations of the principal tissues and organs are made and examined, the general principles of the morphology of the tissues are illustrated, and the student is specially drilled in distinguishing the different tissues under the microscope. Near the end of the term, instruction in embryology, with special reference to human morphology, is given by a short course of lectures and demonstrations.

GEOLOGY—The course in Geology includes recitations and oral instruction, extending through the entire year on alternate mornings. During the first half year, the recitations are attended by the entire Senior Class, except those in the course in Mechanical Engineering. This part of the course includes Physical, Lithological and Dynamical Geology. These subjects are illustrated by diagrams and specimens.

The last half of the year is devoted to Historical Geology and Palaeontology. This part of the course is pursued by all the Seniors except those in the courses in Mechanical and Civil Engineering. Suitable collections of fossils are used to illustrate the subject.

Opportunities are afforded for optional geological excursions during the warmer months.

MINERALOGY—The instruction in Mineralogy is carried on by means of practical work in a laboratory especially fitted up for the purpose, and is intended to familiarize the student with the common minerals, attention being devoted especially to those which are of economic, geological, or scientific importance. To understand better the chemistry of the subject, the student is first made familiar with the simple chemical and blowpipe reactions useful in testing minerals, and applies this knowledge later to the determination of unknown species. The students have access to a labeled collection, where they can study the properties of the minerals and make comparisons, and also to extensive unlabeled collections, arranged especially to give them practice and facility in the correct identification of minerals. In addition to the laboratory work, instruction is given in Crystallography, illustrated by a collection of models and natural crystals. The lectures in Descriptive Mineralogy to the more advanced students are illustrated by means of the extensive private collection of Professor Brush. The laboratory is provided with apparatus for the thorough chemical and physical investigation of minerals and with an extensive library to which students have access. The laboratory is open seven hours each day to accommodate any who desire to devote more time and attention to the subject than is laid out in any of the prescribed courses.

ZOOLOGY—The instruction in Zoology includes a course of lectures on Systematic Zoology, Morphology, and Embryology, which are attended by all the Seniors except those in the courses in Mechanical and Civil Engineering. These lectures are generally given twice a week, and continue during about half the year. The students are required to keep careful notes of the lectures.

Students in the Natural History Course are also required to pursue a course of laboratory instruction during the second term of the Junior and all of the Senior year. This generally occupies from two to four hours a day on four days of each week. It includes dissections of various classes and orders of animals, with microscopic studies of the finer structures and of minute animal forms, as well as work in systematic Zoology.

Special courses of recitations or lectures on particular subjects are also given when desirable.

BOTANY—The scheme of instruction provides for three successive courses of study, as either ending the study for the ordinary student, or introducing it for one who desires to become a professional botanist.

The first or elementary course, which is required of all the Freshmen, is designed to teach the nature of the visible organs of flowering plants, tracing the life-history of vegetation from seed, through stem and root, leaves, branches, buds, blossoms, and fruit, to seed again. The method consists mainly in the use of some easy text-book, like Gray's Lessons, with whatever illustrations and explanations may be needed to secure the student's attention. The second course, coming the next year, is restricted to the sections in Biology, Natural History, Agriculture, and Selected Studies, and is intended to enable the student to recognize the chief natural orders of native plants, with the ability to identify the common species. The class meets two or three times a week in spring and summer, and is practiced in identifying plants, using Gray's Manual as a standard, and employing the ordinary simple dissecting microscope. At this point the instruction for the Select Course ceases; in the next fall term the work for the courses in Biology, Natural History, and Agriculture is entirely practical, books being used only for reference. Students begin with cutting thin sections of some common woody and herbaceous stems, and are shown how to prepare such sections for examination and for permanent preservation as microscopic objects. After acquiring some facility in microscopic manipulation, various parts of flowering plants are brought in for dissection and examination, and towards the close of the term some attention is given to ferns, mosses, and algae. This finishes the course for ordinary students; for those who may desire to prosecute the science professionally, the work is arranged to suit individual requirements, whether it be in the direction

of Histology, or of Systematic Botany as applied to flowering plants, or to ferns, mosses, hepatics, or algae.

AGRICULTURE—The special instruction in the science of Agriculture is by recitations and lectures, with such aid and appliances as are suited to the class-room and laboratory. Besides Analytical and Agricultural Chemistry, it includes a discussion of the cultivation of the staple field crops of the country; theories of rural economy and systems of husbandry; the laws of heredity, and principles of stock-breeding; Botany, Mycology and the diseases of plants, and Zoology. Opportunity is afforded also for the study of insects injurious to crops, and the elements of Veterinary Science, and Bacteriology.

SANITARY SCIENCE—The lectures on this subject discuss the natural laws which govern the public health; their relation to the social habits and condition of communities; instruction in the use of mortuary statistics; the germ-theory of disease and theory of disinfectants; epidemics and pestilence, with their relations to the prosperity of a community, and methods of control; the hygiene of private dwellings and public buildings; the relations of the water supply to public health; sewerage; legislation relating to public health and methods of official sanitary administration.

MATHEMATICS—The Mathematical studies of the Freshman year are pursued by all members of the class; those of the Junior year, by students in the course of Engineering and properly qualified Special Students who may choose them. During the latter year, in connection with the instruction briefly indicated in the scheme above [p. 90], a course of familiar lectures is given to supplement the ordinary class-room exercises.

PHYSICS—The object of the experimental lectures is not only to elucidate the subjects treated in the text-book employed, but also to extend the treatment of such subjects, and to introduce others where thought desirable. A considerable portion of the work of the year is the preparation for recitation on matter thus presented.

The facilities of the Physical Laboratory are extended to such graduate students and Seniors as may desire them.

Course in Advanced Physics—A course of two lectures per week, beginning in January, is supplemented by laboratory work. The earlier portion of the time is devoted to the theory of observation and the method of least squares. The course is optional to all who have a command of the Calculus.

MILITARY SCIENCE AND TACTICS—Instruction in this course is obligatory upon the whole Senior class in all departments. To secure familiarity with definitions and fundamental principles, a concise text-book is used for recitations and reference. The work is carried on chiefly by lectures, upon which satisfactory notes must be submitted. Such topics as the following are discussed: military economy; the American military problem; organization and reorganization; modern war on field and map; statistics and logistics; the combined use of "the three arms"; strategy and campaigning; orders of battle and grand tactics; special operations of war and field service; minor tactics and the art of war; use of cavalry in campaign and battle; use of artillery and the Franco-Prussian war; use of infantry and the Turko-Russian war; and finally a summary of "the Eastern Question." The course will terminate with an examination, and a special military certificate is awarded, by the Regular Army officer in charge of the department, to such students as attain a sufficient degree of proficiency, and give evidence of military aptitude. In connection with this course a brief original paper is required.

CIVIL ENGINEERING—The object of this course is to give, first of all, a thorough preparation in the principles of the various sciences involved, and afterwards, as extensive practice in the application of these principles as the time at disposal, the ability of the students, and the facilities and plant permit.

Under the first head are included such subjects as Mathematics, Physics, Mechanics, Thermodynamics, Astronomy, Geology, Mineralogy, Chemistry, and Botany; and under the second head, Drawing, Surveying, Strength and Properties of materials, and Design and Construction of various kinds, such as Bridges, Roofs, Foundations, Arches, Retaining Walls, Dams, Water Works, Railroads, Improvement of Rivers and Harbors, Sewerage and Drainage, Water Motors, etc.

The first division includes Civil Engineering as a Science, the other, Civil Engineering as an Art. The ground covered by the first is definite, and the instruction is made as thorough as possible. The ground covered by the second is of almost indefinite extent. Here, by a careful selection of practical examples, such as occur in engineering practice, the application of principles is illustrated, and together with the analytical or algebraic methods, the student is also instructed in practical graphic solutions, wherever such solutions present a special value. Much time is devoted to geodetic operations and to surveying in the field. Instruction is given in the practical operations connected with the reconnaissance, location, and surveys of roads, canals, and railroads, such as setting out, cross-sectioning, setting grade stakes, calculation of earthwork, etc. Thorough instruction is given in drawing and design,

the construction of working-drawings, and principles of designing as applied to bridges, roofs, etc.

The instruction is by means of practical exercises, lectures, and recitations, so combined as to develop as far as possible the mental powers of the student. Visits of inspection are made at suitable intervals to private and public works of engineering interest.

The entire course requires five years, three years of undergraduate and two of graduate instruction; and a thesis of merit upon some approved subject, accompanied by designs and estimates, is required upon the completion of the course, as also at the end of the first three years. Examinations are also held at the end of every term and year.

In what follows, such details are given as may be of interest to those who contemplate taking the course.

Mathematics—6 hours weekly, Junior year, both terms. See Synopsis of Course.

French and German—Students in this course take in the Junior year the regular studies of the Junior class in both German and French. French is continued to the end of Senior year.

Drawing and Descriptive Geometry—Drawing is begun at once in the first term of Freshman year, under the charge of the Professor of Drawing in the Art School, and includes practice in free-hand drawing. In the second term, under the Instructor in Instrumental Drawing, the students take isometric drawing with application to drawing from models and structures by measurements, shading, tinting, conventional use of colors, principles of orthographic projections, and practice in making simple working-drawings, 4 hours both terms.

The Drawing of Junior year, 3 hours both terms, includes Descriptive Geometry, the drawing of structures from measurement, and elements of design for simple structures. The instruction is by recitations, lectures, practical exercises, and models, and is under the charge of the Instructor in Instrumental Drawing and the Professor and Instructor in Civil Engineering. Included in the work of this year is also the mapping of surveying field-notes.

In the Senior year, the drawing consists of the mapping of the surveys of that year, and the designing of structures and finished drawings, designs and estimates, under the charge of the Professor and Instructor in Civil Engineering, 6 hours both terms.

Surveying and Field Engineering—The instruction in the field occupies about 20 hours for six or more weeks in both terms of Junior and Senior year. The exercises at these times are so arranged as to secure as much consecutive time as possible in the field. The work of the Junior year includes the use and adjustments of instruments; practice surveys; recitations and lectures upon surveying operations and methods of keeping field-notes. Levels are run, surveys made, plotted,

and checked ; blue-print copies of drawings made, the use of compass, level, and transit acquired. In the second term of Junior year, land and topographical surveys are made and railroad curves run.

In the first term of Senior year, a line of railroad is located and set out from a contour map previously obtained, grades and curves established and set out, and computations made. The theory of economic location is taught by lectures and recitations in connection with the field work. The work is arranged so that each student has sufficient practice in all the various operations. The text-books used are Gillespie and Johnson's works, Hench's Field Book, Gore's Elements of Geodesy, and Merriman's Theory of Least Squares. The course is under the charge of the Professor and Instructor in Civil Engineering, aided by several assistants.

Mechanics of Engineering—Senior year, 6 to 8 hours, both terms. The text-books of Weisbach, 1st and 2d volumes, are used in connection with lectures and solutions of practical problems in illustration of the various topics. The course includes thorough instruction in the strength of materials, the stability of foundations, retaining walls, dams and embankments, and masonry arches, by lectures and graphic methods, Questions of hydraulics, water-supply, the measurement of discharge, and the theory and construction of water-motors receive attention. A course in Thermodynamics with application to air and steam engine is also included.

Construction and Design—Senior year, 6 hours both terms. A thorough course is given in the determination of stresses and the detailed design of roofs, bridges, etc., with working-drawings, specifications, and estimates. Visits of inspection are made, and recitations and lectures held in connection with the work in the drawing room.

Astronomy—This course occupies 6 hours during the second term of Senior year, and includes practical work and the use of the sextant and transit in determining time, latitude, and azimuth.

Geology—This course occupies 3 hours up to the middle of the second term of Senior year.

Mineralogy—This course, under the Professor of Mineralogy, occupies three hours up to the middle of the second term in Senior year.

A course of lectures on the theory of electricity and its applications, by the Professor of Physics, is open to students in this department, and can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

MILITARY ENGINEERING—The object aimed at is to disseminate military information, and to awaken interest in the application of the arts of peace to those of possible war. In connection with the courses of Civil Engineering and Military Science, lectures will be given upon

such topics as: systems of fortifications; sea-coast defenses; hasty intrenchments; passage of rivers and military bridges; military reconnaissance, and instruments; battlefield telemetry and methods; sea-coast range-finding, and ship-tracking devices; gunpowder and ballistic machines; high explosives and demolitions; gun metals, modern ordnance and gunnery; armor plates, turrets, projectiles, and fuses, torpedoes, submarine mines, military electric installation, and countermining.

MECHANICAL ENGINEERING—The objects aimed at in the plan of instruction in this course are, to give to the student a thorough training in elementary and advanced Mathematics and Physics, and their application to the science of Construction; to make him familiar with the general principles of Engineering and with the practical details of mechanical construction through which these principles are made useful; and to enable him ultimately, in beginning the work of his profession, to bring to bear upon it a well balanced store of theoretical and practical knowledge, and a mind trained in correct habits of thought and work.

The complete course covers five years, three of which are spent in undergraduate study, and two in a graduate course, a portion of which may be spent in actual practical work. The subjects and methods of instruction in the undergraduate course are as follows:—

Mathematics—See synopsis, page 90.

French and German—Students take in the Junior year the regular studies of the Junior class in both French and German. French is continued to the end of Senior year.

Surveying—A short course in Surveying comprises lectures on methods of surveying and the construction and use of instruments, also practice in field-work in the use of the level and transit, city surveying, establishing grades, and laying out buildings.

Shop Visiting divides the time equally with Drawing in the Junior year until the spring recess. The student, accompanied by the instructor, is employed in studying machinery in use and in process of construction in different machine-shops in the city. He is required to make satisfactory, carefully dimensioned sketches, from measurements taken by himself, of the complete machines and their parts, and to describe the tools and mechanical operations used in producing the simpler pieces.

Drawing—Descriptive Geometry is taught in the drawing room by lectures and recitations, and by exercises at the drawing board, where the problems are solved graphically by the student. Instruction in drawing Machine Elements is given in the Junior year. Models and cartoons showing examples of approved practice are used by the instructor, who also gives personal attention to each student's work at the board as it progresses.

Principles of Mechanism—This is a course in theoretical and applied Kinematics. Instruction is by text-books and lectures, illustrated by diagrams and models, an extensive collection of which belongs to the School and is accessible to the student.

Steam Engine—Recitations and lectures in this subject begin in the Junior year, after the spring recess. They relate to the structural details of engines and to the mechanical principles involved in their working. The subject is continued in the first term of Senior year, when particular attention is directed to various kinds of valve-gear, the governor, the fly-wheel, balancing, and the effect of the weight of the reciprocating parts. In the second term of Senior year, the study of steam boilers takes the place of that of engines.

Indicator Practice—In the Senior year, the student is afforded opportunities to apply the indicator to various engines in operation, and has practice in reading indicator cards and measuring them by the planimeter. He is taught to detect such defects in the engine as are shown by the cards.

Applied Mechanics—In this course lectures, recitations, and exercises in the solution of practical problems, relate to the topics specified under this head in the scheme on page 91.

Thermodynamics—Recitations and lectures on the mechanical theory of heat and its application to hot-air engines, gas engines, and the steam engine.

Machine Design—The course in this subject consists chiefly in practical exercises at the drawing board, and partly in lectures on the functions of machines and the mechanical principles which are applied in determining the proportions of machinery. The student, under the guidance of an experienced instructor, is employed in making complete working-drawings of machines, many examples of which are in the drawing rooms and the basements of the school. He does not copy the examples, but is required to change the dimensions and in many cases to alter the design, and is ultimately taught to make partly new designs of important machinery, such as cranes, yacht engines, machine tools, boilers, etc. The discipline the student receives is such as he would obtain in the drawing office of an engineering establishment, while he is also carefully instructed in the theory of the subject he deals with, and in the practical bearing of all his work.

In the Senior year, several excursions are made by the class, accompanied by one or more instructors, to neighboring manufacturing and engineering centers, where large manufactories, pumping works, ocean steamers, etc., are visited. Full notes must be taken, and a satisfactory written report upon the machinery examined is required of the student.

Thesis—Before graduating, the student must present a satisfactory thesis on some subject approved by the professor in charge of the department of Mechanical Engineering.

A course of lectures on the theory of Electricity and its applications is open to students in this department, and these lectures can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

ASTRONOMY—Students in the Select Course receive instruction in Astronomy four hours per week during the first term of Junior year.

Students of Civil Engineering during the second term of their Senior year have six recitations per week, and also practical experience in the determinations of time, azimuth, latitude, longitude, etc.

ENGLISH—The course is designed to give the student acquaintance with the great representative writers of the various epochs. A history of the language is one of the studies of the Freshman year; and after that year the study of the language is made entirely subordinate to that of the literature. During the first term of Junior year, however, extracts from Early English authors are read, and Early English Grammar is studied, so as to familiarize the student with the inflections then in use and the distinctions existing between the leading dialects. It is the aim of this term's work to give such knowledge of forms, and to some extent of words, that the student will be able to read at sight any Early English author whose writings do not involve special difficulties of language or vocabulary.

With the second term, the regular study of English literature proper begins with Chaucer; and for the rest of the course till the end of Senior year the following authors are read: Bacon, Shakspeare, Milton, Dryden, Pope, Gray, Goldsmith, and later writers. Those mentioned in the lists are always studied, but other authors not named are also taken up, the course varying somewhat in different years. In all cases, complete works of a writer are studied, not extracts; as, for instance, several of Chaucer's Tales, and several of the plays of Shakspeare. The authors are taken up in chronological order, and the literary history of the time is likewise carried on in connection with the great representative writers of each period.

GERMAN—The aim in this department is to give such a knowledge of facts and principles as shall qualify the student as rapidly as possible to use the language for those various purposes which his special needs may require, and particularly to facilitate the use of German treatises in his later special studies. To accomplish this, the course consists of the combination of the study of systematic German grammar with a complementary and progressive course of written and oral translation from English into German, the latter being designed for the double purpose of increasing the command of grammatical principles,

and through the establishment of a habit of ready and accurate expression, of laying the foundation for future colloquial use of the language. In connection with the foregoing, it is attempted to introduce the student to as many different styles and as many forms of composition as the time allows. For this purpose the reading matter is in general selected from readers and collections prepared for the use of schools in Germany, and characterized by the number and variety of their extracts, thus enabling the instructor to select pieces that illustrate one another and to avoid similar lines of reading with successive classes. Special attention is paid during a portion of the course to English affinities, to analogies in the formation of English and German abstract terms, to the commoner rhetorical resemblances and differences, to the details of arrangement in German sentences, and the development of secondary from primary significations of words.

The subjects of derivation and composition are also systematically studied, both with reference to their practical bearing on the acquisition of a vocabulary, and their scientific value in illustrating the growth of language.

In view of the shortness of the course there is no attempt to secure any considerable acquaintance with German literature. A body of representative pieces of lyric poetry, however, is made the basis of careful literary study, with special attention to poetic diction and variety of metrical form. Memorizing German poems is practiced to some extent as a class exercise, as also retranslation of dictated literal versions of simple pieces into German verse, in accordance with prescribed rhythm and sequence of rhyme.

At the beginning of the Junior year an advanced division is organized, which is thus enabled to read a much larger amount of matter and to pursue more critical methods. The attention of this division is sometimes given for a few months to extracts treating of leading events in German history, with a collateral course of German historical poetry, the selections being made so as to be mutually illustrative. Historical poems not contained in the text-books are often furnished by dictation.

During the last few weeks of the course, there is an attempt to initiate the student into the art of rapid and intelligent, though uncritical reading, dispensing largely with dictionary and grammar and aiming to form independent habits of observation and induction. For this purpose recourse is had to entertaining novels.

In general, it is the endeavor, while aiming primarily and constantly at acquiring a working knowledge of contemporary German, to combine habitually scientific and empirical methods, to enforce correct notions as to the nature of language, to secure incidentally some of the most important disciplinary results of elementary linguistic study, and to give some conception, by suggestive questions and occasional state-

ments, of the various special directions which a more extended and advanced course would necessarily take.

The time allotted to the subject is three hours a week during the Freshman and Junior years.

Regular text-books: Whitney's German Grammar, Whitney's German Dictionary; Ahn's Exercises, or Eysenbach's German Exercises.

FRENCH—The aim of the study in this department of modern languages is to give a fluency in reading which will enable the student to master the modern writers with comparative ease, and a speaking acquaintance as great as is possible in the time allotted. Speed is not the only end aimed at. No place is given to the superficial system which results in the student's possessing a smattering of French phrases and a few idioms, to the exclusion and sacrifice of any real grasp of the subject. It is considered that thoroughness of work, and the training of the powers of thought, as well as those of memory, are as much requisites in this branch of education as in any other. The beginning of the course is devoted to grammatical grounding and correctness of pronunciation, and the first term of each year is spent in learning and reviewing the grammar. On this basis, by means of easy conversational exercises, the student is expected and encouraged to frame sentences, deriving his vocabulary from the exercises and books he is reading in the class. A certain portion of the course is given to French composition and the construction of the sentence. Simple prose is then taken up, followed by the more advanced forms. From the start the subject of the history and evolution of the language is begun. Great emphasis is laid on the etymology, the various changes of form, and a more thorough study of the syntactical theory, as the course proceeds. Special stress is thus laid on the scientific side of the language, its historical development, the relations of French and Latin, and the laws of derivation. As far as is possible without interfering with the value of the recitations, short descriptions are given of the social conditions of past and present French life, and of the state of modern politics, constant reference being made to the intimate connection of literature and history. Lectures are given treating critically of the growth of French literature, particular attention being paid to the authors read in the class-room, the masterpieces of the classical and later periods being treated separately and comparatively. A different cycle of texts is used from year to year, so that only a general outline of the works read can be stated. As far as possible, specimens of the best prose and poetry will be included; the classical and contemporary drama: Corneille, Racine, Molière, George Sand, the Romantic School, Daudet, and the lighter plays of the modern French stage, are used; and the beauties of style,

the spirit of the language, and the idiomatic expressions are pointed out.

The later part of the course will treat of the following topics :

I. The History of the Language based on Brachet, Brunot, and Clédât, with references to Ampère, Littré, and Pellissier.

II. The Rise and Development of the Drama, with discussion of its French Form.

III. The Classical Period.

IV. A General Survey of French Literature (by text-book).

Opportunities for special work or for advanced courses in reading will be furnished, should occasion arise.

HISTORY—The greater part of the work is carried on by means of recitations, Gardiner's *Student's History of England* being used as a text-book. The students are, however, encouraged to pursue independent courses of reading, and are required from time to time to write short essays on special topics and read them to the class. The books used for this purpose are drawn from a small historical library in the class-room. Particular attention is given to the history of institutions and to the constitutional and economic growth of the country, and the location of places is enforced by the use of outline maps which the students are required to fill in.

POLITICAL ECONOMY—In the beginning of the course, an effort is made to familiarize the students with the fundamental principles of Economics, and more particularly to train them in economic reasoning. More difficult problems are then taken up and discussed, and special topics are assigned to the class for investigation. A small library, containing a number of copies of each of the principal authorities, has been provided, in order that the students may be able to familiarize themselves somewhat with the literature of the subject, without expense to themselves. The instruction is given partly by means of text-books and partly by lectures.

THE TERMS AND VACATIONS correspond with those of the College. (See Calendar, p. 6.)

EXPENSES—THE TREASURER'S BILLS are made out and delivered to the students three times a year, viz : at the beginning of each term or half-term, at which time they are payable. If not paid within two weeks of the time they are issued, interest is charged from the date of the bills, and the student is liable to be prohibited from reciting. Drafts on Boston, New York, and Philadelphia are received at

par. The annual charge for tuition for undergraduate students is \$150, payable each term in advance. An additional charge of \$5 a year is made to each student for the use of the College Reading Room and Gymnasium, which is payable at the beginning of the first term. The student in the Chemical course has an additional charge of \$60 per annum for chemicals and use of apparatus. He also supplies himself at his own expense with flasks, crucibles, etc., the cost of which should not exceed \$10 per term. A fee of \$5 is charged to members of the Freshman Class for chemicals and materials used in their laboratory practice, and the same fee is required from all (except Chemical students) who take practical exercises in Blowpipe Analysis and Determinative Mineralogy. A fee of \$5 for the first term and for each half term is also charged to students in the Zoological and Anatomical Laboratories, for materials and use of instruments.

For graduate students the charge for tuition is one hundred dollars per year.

THE FEE FOR GRADUATION in the case of BACHELORS OF PHILOSOPHY is ten dollars, unless the person taking the degree is also a graduate of the College, when the fee is but five dollars.

SCHOLARSHIPS

STATE SCHOLARSHIPS—By an Act passed in 1863, the General Assembly of Connecticut established certain scholarships from the income of the fund derived from the National Grant of July, 1862. For some years past there have been about twenty-three of these scholarships (the number depending upon the income of the fund), designed to aid by free tuition young men fitting themselves more especially for pursuits in agriculture, manufacturing, and engineering. An act of Congress, approved August 30, 1890, entitled "*An act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the Colleges for the benefit of Agriculture and the Mechanical Arts established under the provisions of an act of*

Congress approved July 2, 1862," permits these scholarships to be increased for the ensuing year to about eighty.

The applicants must be citizens of Connecticut. The appointing board consists of the Board of State Visitors (see p. 84) and the Secretary of the School; it meets on the Tuesday before Commencement (viz: on June 28, 1892), to fill the vacancies for the next University year. Applications should be made, after May 1 and prior to June 25, to Professor George J. Brush, Secretary of the Appointing Board.

THE HOLMES SCHOLARSHIP, founded by Samuel Holmes, Esq., amounts to \$50 per year. The recipient must be a citizen of Middlebury, Prospect, Waterbury, or Wolcott, Connecticut; the appointments are made by the Board of Agents of the Bronson Library in Waterbury.

DEGREES

THE DEGREE OF BACHELOR OF PHILOSOPHY is conferred on those who have completed one of the three-year courses, and have passed the examination at its close.

CIVIL ENGINEER AND DYNAMIC OR MECHANICAL ENGINEER—see page 115.

DOCTOR OF PHILOSOPHY—see page 114.

COURSES OF GRADUATE INSTRUCTION

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
REV. NOAH PORTER, D.D., LL.D., *Professor of Moral Philosophy and Metaphysics*
JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*
REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*
EDWARD J. PHELPS, LL.D., *Professor of Law*
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Sanskrit and Comparative Philology*
GUSTAVE J. STOECKEL, MUS.D., *Professor of Music*
HUBERT A. NEWTON, LL.D., *Secretary, and Professor of Mathematics*
GEORGE J. BRUSH, LL.D., *Professor of Mineralogy*
SAMUEL W. JOHNSON, M.A., *Professor of Theoretical and Analytical Chemistry*
WILLIAM H. BREWER, PH.D., *Professor of Agriculture*
JOHN E. CLARK, M.A., *Professor of Mathematics*
DANIEL C. EATON, M.A., *Professor of Botany*
ARTHUR M. WHEELER, M.A., *Professor of History*
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*
ADDISON VAN NAME, M.A., *Instructor in Japanese*
J. WILLARD GIBBS, PH.D., *Professor of Mathematical Physics*
CHARLES B. RICHARDS, M.A., *Professor of Mechanical Engineering*
ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*
THOMAS R. LOUNSBURY, M.A., *Professor of English*
OTHNIEL C. MARSH, PH.D., LL.D., *Professor of Palaeontology*
EUGENE L. RICHARDS, M.A., *Professor of Mathematics*
WILLIAM I. KNAPP, PH.D., LL.D., *Professor of Modern Languages*
JOHN H. NIEMEYER, M.A., *Professor of Drawing*
TRACY PECK, M.A., *Professor of Latin*
ADDISON E. VERRILL, M.A., *Professor of Zoology*
WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*
REV. GEORGE T. LADD, D.D., *Professor of Philosophy*
CHARLES H. SMITH, M.A., *Professor of American History*
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*
WILLIAM G. MIXTER, M.A., *Professor of Chemistry*
HENRY P. WRIGHT, PH.D., *Professor of Latin*
HENRY A. BEERS, M.A., *Professor of English Literature*

A. JAY DuBOIS, PH.D., *Professor of Civil Engineering*
EDWARD S. DANA, PH.D., *Professor of Physics*
THOMAS D. SEYMOUR, M.A., *Professor of Greek*
CHARLES S. HASTINGS, PH.D., *Professor of Physics*
FRANK A. GOOCH, PH.D., *Professor of Chemistry*
ALBERT S. COOK, PH.D., L.H.D., *Professor of English*
ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*
GEORGE B. ADAMS, PH.D., *Professor of History*
HENRY W. FARNAM, R.P.D., *Professor of Political Economy*
EDWARD P. MORRIS, M.A., *Professor of Latin*
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*
ARTHUR T. HADLEY, M.A., *Professor of Political Science*
ARTHUR H. PALMER, M.A., *Professor of German*

OTHER INSTRUCTORS

REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*
REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*
WILLIAM C. ROBINSON, LL.D., *Professor of Law*
REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*
EUGÈNE BERGERON, B.A., *Instructor in French*
JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*
WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*
REV. GEORGE B. STEVENS, PH.D., D.D., *Professor of New Testament
Criticism and Interpretation*
SAMUEL L. PENFIELD, PH.B., *Assistant Professor of Mineralogy*
HORACE L. WELLS, PH.B., *Assistant Professor of Analytical Chemistry*
EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*
THOMAS D. GOODELL, PH.D., *Assistant Professor of Greek*
KUMATO MORITA, *Lecturer on the History of Philosophy*
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*
E. HERSHEY SNEATH, PH.D., *Instructor in Philosophy*
FRANK K. SANDERS, PH.D., *Instructor in the Semitic Languages*
EDWARD T. McLAUGHLIN, B.A., *Assistant Professor of English*
GUSTAV F. GRUENER, B.A., *Tutor in German*
REV. FRITZ JACOBSON, PH.D., *Lecturer on the History of Philosophy*
W. IRVING HUNT, B.A., *Tutor in Greek*
FRANK G. MOORE, PH.D., *Tutor in Latin*
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*
JOHN C. SCHWAB, PH.D., *Lecturer on Political Science*
IRVING FISHER, PH.D., *Tutor in Mathematics*
OLAUS DAHL, PH.D., *Instructor in Swedish and Danish*
HANNS OERTEL, PH.D., *Instructor in German*

THE INSTRUCTION OF GRADUATES, independently of the courses of study provided in the professional schools, had been attempted in an informal way before 1847, when such courses were definitely arranged, and the Department of Philosophy and the Arts constituted, with this object in view. The degrees of Doctor of Philosophy and Civil Engineer were first offered in 1860, that of Dynamical or Mechanical Engineer in 1873, and that of Master of Arts (previously given without evidence of study) in 1874.

Graduates of this and other Colleges and Universities, and (in exceptional cases, by special permission) other persons of liberal education, who are at least eighteen years old, are received as students for longer or shorter periods, with or without reference to the attainment of a degree.

An executive Committee has a general oversight of the students in this Department. The Committee this year is composed of Professors WHITNEY, NEWTON, BRUSH, WHEELER, LADD, and HADLEY. They receive the names of applicants for instruction, and judge and approve the courses of study proposed; and information may be obtained from them as to conditions, terms, etc. Students may also make special arrangements with any instructor according to their mutual convenience. All graduate students not regularly enrolled in any other Department of the University, are required to register their names at the Treasurer's office at the beginning of each year of study.

Instruction is given partly by lectures, partly by recitations and by oral and written discussions, partly by directing courses of reading, and partly by work in the laboratories and with instruments. There are also various voluntary associations, in which instructors and students meet together periodically for the reading of papers, oral discussions, etc.; such are, the Classical and Philological Society, the Mathematical Club, the Political Science Club, the Philosophical Club, the Modern Language Club, the Greek Club.

The terms and vacations correspond with those in the Undergraduate Departments. (See Calendar, p. 6.)

The fee for instruction is generally one hundred dollars; but may be more, or less, according to the course pursued and the amount of instruction received.

Students have the free use of the Library of the University (including the Linonian and Brothers Library); and are admitted to the College Reading Room on payment of an annual fee of two dollars. The University Library contains over 150,000 volumes, and many thousands of unbound pamphlets. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number,—the foreign serials alone being not less than five hundred. The Linonian and Brothers Library contains 31,000 volumes. The Reading Room receives forty-seven daily newspapers, American and foreign, fifty weeklies, and seventy periodicals,—in addition to the periodicals received at the University Library.

THE DEGREE OF DOCTOR OF PHILOSOPHY is conferred upon those who, after having taken a Bachelor's degree (implying a course of undergraduate study equivalent to that pursued in the Academical Department), and having studied in this Department for not less than two years, shall have passed a satisfactory final examination and presented a thesis giving evidence of high attainment in the branches of knowledge pursued. The thesis must be deposited at the Library for public inspection, not later than June 1. The degree is not given, upon examination, to those whose studies are pursued elsewhere. The requirements for a degree in many cases exact of the student more than two years of labor; especially when the course of undergraduate study has been less than four years. A good knowledge of Latin, German, and French, is required in all cases, unless, for some very exceptional reasons, the candidate be excused by the Faculty. The fee for graduation is ten dollars.

THE DEGREE OF MASTER OF ARTS is conferred on Bachelors of Arts of Yale College or of other Colleges, of two years' standing or upwards, who have given to the Faculty of the Academical Department evidence of having made satisfactory progress in liberal studies after receiving their first degree. Such evidence may be furnished by one year's systematic study (not professional) in New Haven, under the direction of the Academical Faculty, followed by an examination. Graduates of other Colleges can obtain the degree only by residence as thus described.

Such Bachelors of Arts of *Yale College* as may not choose to reside at the College for the prosecution of study may show at any time, not less than three years after graduation, by their printed essays, or by submitting to special examinations, that they have spent a year in liberal (and non-professional) study, and are worthy of recommendation for this degree.

A committee of the Faculty is appointed (consisting for the present year, of Professors NEWTON and WHEELER), to whom candidates for this degree must submit their proposed courses of study for approval by the first of November in each year; and the evidence of a year's study must be submitted to the same committee by the first of June.

In the case of resident students, the charge for instruction will usually be one hundred dollars, with a fee of ten dollars for the degree. In the case of non-residents, the fee for examinations and the degree will usually be twenty-five dollars.

THE DEGREES OF CIVIL ENGINEER AND MECHANICAL (OR DYNAMICAL) ENGINEER are conferred on Bachelors of Philosophy who have taken the first degree in Engineering study, and who pursue a higher course under the direction of the Governing Board of the Sheffield Scientific School, for at least two years, sustaining a final examination, and giving evidence of their ability to design important con-

structions and to make the requisite drawings and calculations. The fee for graduation is five dollars.

The Courses of Instruction may be grouped as follows.
(The number of hours stated means, in every case, hours each week.)

I. PSYCHOLOGY; ETHICS; PHILOSOPHY

Ex-President PORTER :—

- 1 *Metaphysics.* 1 hr. both terms.

This course comprises the reading and discussion of a variety of authors, the questions considered having especial reference to Theism.

Professor LADD :—

- 2 *Philosophical Seminary.* 2 hrs. both terms.

This class meets one evening each week for the study of the principal problems of philosophy. At each meeting brief papers will be read by two or more members of the class, to be followed by discussion. The order of topics followed corresponds, in the main, to that of Ladd's Introduction to Philosophy. The review of important recent works, or articles, on philosophy will occasionally occupy the time.

- 3 *History of Philosophy.* 1 hr. both terms.

The somewhat thorough study of Hegel's system of philosophical thinking is undertaken. Lectures upon the *Phänomenologie des Geistes* are accompanied by reading of the Philosophy of History, and followed by the reading and discussion of the whole of the smaller Logic and parts of the larger Logic.

- 4 *Psychology.* 1 hr. both terms.

This course of University lectures will describe and discuss various classes of unusual and abnormal mental phenomena ;—such as those of Sleep and Dreaming, Hypnotism, Double Consciousness, Hallucination, so-called Spiritualism, etc. It will be introduced by a brief popular exposition of the nervous mechanism and its reflex and automatic functions. If taken for a degree, it must be accompanied by reading for examination.

Assistant Professor DUNCAN :—

- 5 *History of Psychology.* 1 hr. both terms.

This course comprises the reading and free discussion of some of the older works on psychology; *e. g.*, Locke's *Essays*; Berkeley's *Theory of Vision*; Reid's *Inquiry*; Kant's *Anthropology*, etc.

Dr. SNEATH :—

- 6 *British Philosophy.* 2 hrs. both terms.

The course of speculative thought in Great Britain through Locke, Berkeley, and Hume, is traced, with study of selected writings of these authors and special reference to the subsequent development of philosophy in the Scottish School.

Dr. JACOBSON :—

- 7 *Swedish Philosophy.* 2 hrs. both terms.

A careful study of the development of speculative thought in Sweden is made, with frequent reference to writers of Denmark and Norway. Lectures are accompanied by discussions and papers prepared by the class.

Mr. MORITA :—

- 8 *Oriental Philosophy.* 2 hrs. both terms.

A series of lectures is given — accompanied by discussion and papers from the class — on the Chinese Classics, Confucianism, the Hindu Logic, and the Sacred Books of Buddhism. An attempt will be made to understand the philosophical conceptions of the Orient, with special reference to modern theories concerning man, nature, and God.

[The following undergraduate courses are open also to graduate students. See pp. 38, 39.]

Ex-President PORTER :—

- 9 *Advanced Ethics.* 1 hr. both terms.

Professor LADD :—

- 10 *Philosophical Anthropology.* 2 hrs. both terms.

- 11 *Introduction to Philosophy.* 2 hrs. both terms.

- 12 *Physiological Psychology.* 2 hrs. both terms.

Assistant Professor DUNCAN :—

- 13 *Advanced Psychology.* 2 hrs. both terms.

Dr. SNEATH :—

- 14 *Pedagogics.* 2 hrs. both terms.

[The following courses in the Divinity School are also open to graduate students.]

Professor HARRIS :—

- 15 *The Philosophical Basis of Theism and the Self-Revelation of God.* 2 hrs. both terms.
16 *Christian Ethics.* 1 hr. both terms.

Professor FISHER :—

- 17 *Comparative Religion.* 1 hr. both terms.

Familiar lectures are given by the instructor, and essays read (in connection with conversational discussion) by the students. Constant reference is made to Saussaye's *Religionsgeschichte*. Among the principal topics considered are, the origin of religion; the classification of religions, and their principal forms; the phenomenology of religion (objects of worship, the worship of nature and of men, magic and divination, sacred places and persons, mythology, the connection of religion with ethics, etc.); the ethnographic division of religions; the principal religions of the world. To this last topic attention is especially given, without neglecting, however, to inquire into the peculiarities of the minor forms of religion.

II. POLITICAL AND SOCIAL SCIENCE AND HISTORY

[Professor SUMNER is absent for the year 1891-92; the courses usually given by him are therefore omitted.]

Professor FARNAM :—

- 1 *The History of Labor Organizations.* 1 hr. 1st term.

A brief account of societies of artisans from the origin of the guild system to the present time, showing their relation to the mechanical arts on the one hand and to the governmental control of industry on the other.

- 2 *The Principles of Public Finance.* 2 hrs. 2d term.

A systematic survey of the means by which the expenditures of government are met, regard being had both to the economic principles involved and to the fiscal systems of modern states. Leading topics are the budget, taxation (national and local), public debts, and state banks considered as aids to public credit.

Professor HADLEY :—

- 3 *Political Economy* (undergraduate course, p. 40).
2 hrs. both terms.
- 4 *Political Economy* (undergraduate course, p. 40).
3 hrs. both terms.
- 5 *Political Economy* (undergraduate course, p. 41).
2 hrs. both terms.
- 6 *Corporations.* 2 hrs. 1st term.
The history of corporate ownership; its effect upon labor, prices, and profits, with the legislation of different states and countries on these subjects; the limits of public and private activity in corporate business.
- 7 *Railroad Administration.* 2 hrs. 2d term.
This course deals with railroad expenditures and receipts, the methods of railroad accounting, railroad rates and discriminations and their effects upon the community, the various methods of legislative control and their results.

Professor HADLEY and Dr. SCHWAB :—

- 8 *School of Political Economy.*

The economic and financial history of the United States since 1860 will be studied, each of the members of the School investigating an assigned topic in the proposed field.

Dr. SCHWAB :—

- 9 *Finance* (undergraduate course, p. 41). 1 hr. both terms.
- 10 *Public Finance.* 1 hr. both terms.

The principles of government revenue and their application to the finances of the United States, especially to State, County, Township and City finances. Leading topics are: the spheres of expenditure and revenue of the different political units of the

United States ; their fiscal policy ; historical and critical study of their forms of revenue ; public lands, government monopolies, fees, licenses, taxes, and loans ; the American system of State and local taxation in theory and practice ; State and local debt financing.

Dr. I. FISHER :—

- 11 *Mathematical Theory of Prices.* 1 hr. both terms.

Analytical, graphical, and mechanical method applied to production, consumption, exchange, and the determination of prices. Jevons's Theory of Political Economy will be used as a basis. Students acquainted with German and French read parts of Auspitz und Lieben, *Untersuchungen über die Theorie des Preises*, and Walras, *Éléments d'Économie politique pure*.

Instruction will be given in the conceptions and processes of the Calculus (covering 50 pages from Loomis's Elements), sufficient to enable the student to understand their applicability to social problems.

Professor BREWER :—

- 12 *Physical Geography in its relation to Political History.* 1 hr. 1st term.

A course of lectures discussing the following topics : 1. The relations of man to the region he inhabits ; 2. The physical conditions and natural productions necessary for civilization ; 3. Natural aids to the defence and protection of communities ; 4. Natural facilities for commerce ; 5. How the influence of natural conditions is modified by modern inventions.

Professor WHEELER :

- 13 *English History* (undergraduate course, p. 43). 3 hrs. both terms.
14 *History of Europe since 1789* (undergraduate course, p. 43). 2 hrs. both terms.
15 *English History.* 2 hrs. both terms.

This course covers two years. The object is to trace carefully the long, continuous, and, on the whole, orderly development of English political institutions. Special topics are assigned, and the best sources of information indicated. Particular attention is devoted to the early and medieval periods, and for these the

work of Bishop Stubbs will be the leading authority. The second half of this course will be given in 1891-2, beginning with the Tudor period.

Professor C. H. SMITH :

- 16 *American History* (undergraduate course, p. 43).
3 hrs. both terms.
- 17 *American History* (undergraduate course, p. 43).
2 hrs. both terms.
- 18 *American History* (undergraduate course, p. 43).
1 hr. both terms.
- 19 *American History*. 1 hr. both terms.

An investigation course in colonial, political, and constitutional history. Topics are assigned to individual members of the class for investigation, the results of which are to be presented in theses. This course also offers an opportunity for research to those who wish to study some period of their own selection.

Professor ADAMS :

- 20 *Medieval History* (undergraduate course, p. 43).
2 hrs. both terms.
- 21 *Europe from 1520 to 1789* (undergraduate course, p. 43).
2 hrs. both terms.
- 22 *The Age of the Renaissance*. 1 hr. both terms.

The founding and development of universities, the revival of learning, the awakening of the critical spirit and its application to old beliefs, the age of discoveries, and the beginning of modern natural science. These topics are taken up with special reference to the practical problems which arose in connection with them.

- 23 *Investigation Course*.

The investigation of special topics in the field of European history. The topics to be studied may be selected by the student with the approval of the instructor. Occasional meetings of those who take the course are held for the discussion and illustration of the methods of historical investigation and criticism, and it will be the object of the course to impart a knowledge of those methods as well as of the special facts investigated.

III. ANCIENT LANGUAGES AND LITERATURES

Professor WHITNEY :—

- 1 *Sanskrit.* 2 hrs. both terms.
A first year's course of instruction in Sanskrit, beginning with the instructor's Sanskrit Grammar, and passing on to Lanman's Reader. A sketch of Sanskrit literature is given in connection with the exercises during the latter part of the year
- 2 *Sanskrit.* 2 hrs. both terms.
A second year's course of instruction in Sanskrit.

Dr. OERTEL :—

- 3 *Comparative Philology.* 1 hr. both terms.
Lectures on Comparative Philology with especial reference to Latin and Greek Phonology and Morphology.
- 4 *The Achaemenidan Cuneiform Inscriptions.* 1 hr. 2d term.
Their phonetic and etymological character as compared with the other Iranian dialects and the Sanskrit.

Dr. SANDERS :—

- 5 *Hebrew Language.* 4 hrs. 1st term.
A study of Genesis i-viii, including (a) the grammatical principles of the language; (b) the acquisition of a vocabulary; (c) translation of English into Hebrew.
- 6 *Historical Hebrew.* 2 hrs. 2d term.
A critical translation of portions of the Books of Samuel, using Driver's "Notes on the Hebrew Text of the Books of Samuel" with a study of (a) Hebrew syntax; (b) the Hebrew accents; (c) the principles of textual criticism with special reference to the use of the ancient versions; (d) the principles of historical criticism.
- 7 *Hebrew Readings.* 1 hr. 2d term.
Selected passages in the historical and prophetic books.
- 8 *Early Hebrew Poetry.* 1 hr. 2d term.
A study of selected poems in the historical books from the standpoint of (a) interpretation, (b) the form of Hebrew poetry.
- 9 *Arabic for Beginners.* 2 hrs. 1st term.
Including (a) the grammatical principles, (b) translation of easy Arabic, (c) translation of English into Arabic.

- 10 *Later Suras of the Qurân.* 2 hrs. 2d term.

A continuation of the preceding course, including (a) a study of Arabic syntax, (b) rapid reading of the more interesting Suras, (c) lectures on the literary form and development of the Qurân.

- 11 *The Suras of the Earlier Periods.* 2 hrs. 1st term.

A rapid reading of the early Suras of the Qurân in chronological order with special reference (a) to the determination of its pre-Islamic elements, (b) a comparison of the ideas of each period, (c) the spiritual history of Mohammed.

- 12 *Arabic Literature.* 2 hrs. 2d term.

Reading of selections from prose and poetical literature, using a chrestomathy and selected works, with lectures on the history and literature of Arabia since the time of Mohammed.

- 13 *Hosea, Joel, Amos.* 2 hrs. both terms.

A textual and syntactical study, including also careful exegesis and consideration of the historical material connected with these prophecies.

- 14 *Old-Testament Literature.* 1 hr. 2d term.

A series of lecture-studies, based largely on Driver's "Introduction to the Literature of the Old Testament," presenting from a constructive point of view the critical material relating to the origin, structure, contents, and purpose of the books of the Old Testament.

Dr. DAHL:—

- 15 *Assyrian.* 2 hrs. both terms.

This course includes (a) the grammatical principles, (b) mastery of the most common cuneiform signs, (c) reading of transliterated text. Lyon's *Assyrian Manual* is used as a text-book, with constant reference to Delitzsch's *Assyrian Grammar*. The course includes also a study of some of the Historical Assyrian contained in Abel and Winckler's *Keilschrifttexte*.

- 16 *Prophecy.* 2 hrs. both terms.

Historical study of prophecy, including a comparison of Hebrew and non-Hebrew prophecy; the real nature of prophecy; the prophetic order; the prophet as a teacher; the contents and form of the prophetic message. Hebrew studies and readings.

Mr. VAN NAME:—

- 17 *Japanese.*

Elements of the Japanese language, and exercises in the reading of both transliterated and native text. One or two hours a week both terms.

Professor SEYMOUR :—

- 18 *The Annalists, Herodotus, and Thucydides.* 2 hrs. both terms.
- 19 *Greek Dialects.* 2 hrs. 1st half-year.
Introduction to the study of Greek dialects, with the use of
Cauer's *Delectus Inscriptionum Graecarum.*
- 20 *The Greek Lyric Poets.* 2 hrs. 2d half-year.

[The following undergraduate courses are open also to graduates.]

- 21 *Greek Tragedy.* 2 hrs. both terms.
Five of the plays of Aeschylus, with special study of dramatic
art, the development of tragedy, metres, and scenic antiquities.
- 22 *Plato.* 2 hrs. both terms.
The *Gorgias* and the *Republic*, with special attention to the
dramatic character of the dialogues, the characteristics of Plato's
style, and the connection of thought.
- 23 *Greek Testament.* 1 hr. 2d term.
A philological, not theological, interpretation of Paul's Epistles
to the Corinthians.

Professor STEVENS :—

- 24 *Biblical Greek.* 1 hr. both terms.
A study of the peculiarities of Hellenistic Greek as represented
in the Septuagint and New Testament.

Mr. KITCHEL :—

- 25 *Sophocles* (undergraduate course, p. 49). 1 hr. both terms.
The Oedipus at Colonus and Philoctetes.

Assistant Professor CLAPP :—

- 26 *Euripides* (undergraduate course, p. 50). 2 hrs. both terms.
- 27 *Greek Testament* (undergraduate course, p. 50). 1 hr. 1st term.
- 28 *Greek Composition.* 1 hr. 2d term.

Assistant Professor GOODELL :—

29 *The Greek Element in the English Language* (undergraduate course, p. 50). 1 hr. 1st term.

30 *Topography and Monuments of Athens* (undergraduate course, p. 50). 1 hr. 2d term.

Mr. HUNT :—

31 *Demosthenes : The Oration on the Crown* (undergraduate course, p. 50). 2 hrs. 2d term.

The GREEK CLUB, composed of the instructors and graduate students in Greek, spends one evening each week in reading and discussing the work of some Greek author, with book-reviews and reports.

Professor PECK :—

32 *The Epistles of Horace*. 2 hrs. 1st half-year.

33 *The Annals of Tacitus*. 2 hrs. 2d half-year.

34 *Prose Latin of the 1st Century* (undergraduate course, p. 48). 2 hrs. both terms.

Quintilian (x and xii), Tacitus *Dialogus* and *Annals*, i-vi), and Suetonius (*Tiberius*).

35 *Roman Satire* (undergraduate course, p. 48). 2 hrs. both terms.

Lucilius, Horace, Persius, Juvenal, and Martial.

36 *Latin Composition* (undergraduate course, p. 48). 1 hr. both terms.

Papers and conversation in Latin.

Professor H. P. WRIGHT :—

37 *Horace and Catullus* (undergraduate course, p. 49). 2 hrs. 1st term.

Books iii and iv of the Odes of Horace, with selections from Catullus.

Professor MORRIS :—

38 *Plautus* (undergraduate course, p. 49). 2 hrs. 1st term.
The *Amphitruo* and the *Miles Gloriosus*.

- 39 *The Conspiracy of Catiline* (undergraduate course, p. 49).
2 hrs. 2d term.
Cicero in *Catilinam* i-iv, *pro Sulla*, *pro Murena*; Sallust, *Catilina*;
the Commentary of Asconius.

Dr. F. G. MOORE :—

- 40 *Seneca* (undergraduate course, p. 49). 2 hrs. 2d term.
Moral Essays and Letters.

IV. MODERN LANGUAGES AND LITERATURES

Professor KNAPP :—

- 1 *Old French* (undergraduate course, p. 43).
2 hrs. both terms.
- 2 *French* (undergraduate course, p. 44). 2 hrs. both terms.
Rapid translation of English prose into French, with conversation.
- 3 *French* (undergraduate course, p. 44). 2 hrs. both terms.
Rapid reading of Balzac and Victor Hugo (*Père Goriot*, *César Birotteau*; *Les Misérables*, etc.)
- 4 *Spanish* (undergraduate course, p. 44). 3 hrs. both terms.
Grammar; Readings in Palacio Valdés, Alarcon, Aguilera, and selections from the *Don Quijote*.
- 5 *Italian* (undergraduate course, p. 44). 3 hrs. both terms.
Grammar; Readings in modern novelists. From *Easter*, Dante's *Inferno*.

M. BERGERON :—

- 6 *French* (undergraduate course, p. 44). 2 hrs. both terms.
History of the Theatre from its origin to the present day, with composition. Phonetics, with special references to Brachet's Historical Grammar. This course is conducted in French during the second term.
- 7 *French* (undergraduate course, p. 44). 3 hrs. both terms.
Modern readings with special reference to grammar, idioms, pronunciation, and vocabulary.

Professor PALMER :—

- 8 *Schiller, Works and Life* (undergraduate course, p. 45).
2 hrs. both terms.

- 9 *Goethe, Works and Life* (undergraduate course, p. 45).
3 hrs. both terms.
- 10 *History of German Literature since 1740* (undergraduate course, p. 45). 2 hrs. both terms.
- 11 *Gothic* (undergraduate course, p. 45). 1 hr. both terms.
- 12 *Introduction to Germanic Philology* (undergraduate course, p. 45). 1 hr. both terms.

Mr. GRUENER :—

- 13 *Middle-High German* (undergraduate course, p. 45).
2 hrs. both terms.
- 14 *German Prose* (undergraduate course, p. 45).
2 hrs. both terms.

Dr. OERTEL :—

- 15 *German Composition and Conversation* (undergraduate course, p. 45). 2 hrs. both terms.

Dr. DAHL :—

- 16 *Old Norse (Icelandic)*. 1 hr. both terms.
Vigfusson and Powell's Icelandic Prose Reader will be used.
- 17 *Norwegian and Danish* (undergraduate course, p. 45).
2 hrs. both terms.
- 18 *Norwegian and Danish* (undergraduate course, p. 46).
1 hr. both terms.
- 19 *Swedish* (undergraduate course, p. 46).
1 hr. both terms.

Professor BEERS :—

- 20 *Medieval Literature*. 1 hr. both terms.

The selections in Mätzner's *Altenglische Sprachproben* are read in the class-room, and the most important literary monuments of the 13th, 14th, and 15th centuries are assigned for outside reading and annotation : including representative homilies, lives of saints, metrical romances, chronicles, miracle plays, lyrical poems, court allegories, satires, and narrative ballads.

- 21 *English Literature.* 1 hr. both terms.
The history of English Romanticism from Thomson to Swinburne (1726-1890), with incidental study of the parallel movements in Germany and France. The instruction is given mainly by lectures. Students are required to keep and submit notes of their reading, and to prepare topical papers from time to time.
- 22 *18th-Century Literature.* 2 hrs. both terms.
The course embraces selections from the following authors: Swift, Addison, Prior, Gay, Pope, Johnson, Burke, Goldsmith, Sheridan, Fielding, Sterne, Collins, Gray, Cowper, and Burns. Thackeray's "English Humorists," Leslie Stephen's "History of English Thought," and the histories of 18th-century literature by T. S. Perry and Edmund Gosse are used as reference books.
- 23 *19th-Century Literature.* 2 hrs. both terms.
The principal English authors from Wordsworth to Swinburne (except Tennyson and Browning) are studied, partly by critical readings in the class-room, partly by outside assigned reading in connection with the English loan-library, and partly through lectures and reference books.
- 24 *Milton and his Contemporaries.* 1 hr. both terms.
The course includes all Milton's English poems, the Epitaphium Damonis, portions of the Elegiarum Liber, and the selections from the prose tracts included in the "Parchment" edition; together with passages from the lyrical poets of Milton's time, and from the works of Clarendon, Browne, Taylor, Fuller, and Izaak Walton.
- 25 *Literature of the Early Stuart and Commonwealth Period*
(undergraduate course, p. 46). 2 hrs. both terms.

Professor Cook :—

- 26 *Old-English Poetry.* 1 hr. 1st term.
The texts used are Judith (Cook's edition), Elene (Kent's edition), and The Battle of Maldon (Sweet's Reader). These are read, their place in the literature examined, and questions of authorship, date, and textual criticism discussed. Ten Brink's and Wülcker's Histories of Old English Literature are constantly used for reference.
- 27 *Old-English Grammar.* 1 hr. 2d term.
An exhaustive grammatical examination of some prose text is made, on the basis of Cook's Phonological Investigation of Old English and edition of Sievers' Grammar for Phonology, of the latter for Inflection, and of March's Grammar for Syntax.

- 28 *Historical English Prosody.* 1 hr. 1st term.
 Schipper's Englische Metrik is adopted as the basis of study, but reference is made to the discrepant views of other authorities.
- 29 *Middle-English Grammar.* 1 hr. 2d term.
 An outline of Middle-English Phonology and Inflection is given by means of lectures, and the knowledge thus gained is applied in a grammatical study of Chaucer, on the basis of ten Brink's Chaucer's Sprache und Verskunst.

[The following undergraduate courses are also open to graduates.]

- 30 *History of English Literature.* 2 hrs. 1st term.
- 31 *Chaucer.* 2 hrs. 1st term.
- 32 *Old and Middle English.* 2 hrs. both terms.
- 33 *English Essayists.* 2 hrs. 2d term.
- 34 *Shakespeare.* 2 hrs. 2d term.
- 35 *Bacon.* 2 hrs. 1st term.
- 36 *Tennyson.* 2 hrs. 1st term.
- 37 *Browning.* 2 hrs. 2d term.
- 38 *Theories of Poetry.* 2 hrs. 2d term.

Assistant Professor McLAUGHLIN :—

39 *Literary Criticism.*

A course designed for training in general literary criticism based on selected plays from the principal Elizabethan dramatists and a few later dramatic authors, especially Browning.

40 *Medieval Literature.*

The minor poems of Chaucer, Troilus and Cressida, and selected Canterbury Tales, and those poems of Tennyson, Matthew Arnold, William Morris, and Swinburne which are drawn from medieval originals, are read critically, in connection with lectures on medieval as influencing modern English literature, particularly in romance. It is desired that students taking this course should be qualified to read (beside late-classical and medieval Latin), Old English, Old French, and Middle-High German, and should follow under the direction of the instructor a systematic study of the early treatment of some one of the main topics presented in the poems discussed in the class. A paper containing the result of his investigation of some subject connected with the course is required from each member of the class.

V. NATURAL AND PHYSICAL SCIENCE

Professor J. D. DANA :—

1 *Geology.*

The subjects taught in the course are Physiographic and Lithological Geology, with Historical and Dynamical Geology in alternate years; and for an advanced elective, the reading and discussion of original memoirs and other publications in all these departments, together with work in the field. For practical illustration of the various subjects, the instruction is supplemented by excursions to regions, severally, of sedimentary, metamorphic, and igneous rocks; of variously flexed, jointed, altered, and degraded rocks; of seashore action and its results; of glacial, fluvial, and other Quaternary phenomena. Excellent localities for the study of these various subjects are found in the vicinity of New Haven, but excursions extend also to neighboring parts of New England and New York.

Professors BRUSH, E. S. DANA, and PENFIELD :—

2 *Mineralogy.*

(1) Descriptive Mineralogy: including the study of mineral species individually and in their relations to each other in composition, association, and so on. (2) Crystallography and Optical Mineralogy: the study of the mathematical relations of the forms of crystals, the measurement of crystals on the goniometer, and their practical determination; also, the study of the optical characters of the different groups of crystals, the determination of the position of the axes of light-elasticity, measurement of indices of refraction, of the optic axial angles, etc. (3) Determinative Mineralogy and Blowpipe Analysis: the study of the use of the blowpipe and its application to the determination of a mineral species.

[The following undergraduate courses are open also to graduates.]

Professor E. S. DANA :—

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| 3 <i>Mineralogy and Crystallography.</i> | 2 hrs. both terms. |
| 4 <i>Descriptive Mineralogy.</i> | 1 hr. both terms. |
| 5 <i>Petrography.</i> | 1 hr. both terms. |

Professor A. W. WRIGHT :—

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| 6 <i>Physics</i> (undergraduate course, p. 52). | |
| | 2 hrs. both terms. |

7 *Experimental Physics.*

Direction of practical work in the Sloane Physical Laboratory, with instruction in the principles and methods of physical investigation, the processes and instruments of measurement, and the methods of computing and reducing results of observations. Special attention is paid to practical measurement in electricity and magnetism. The student is expected to make original investigations an important part of his work, and has the free use of the laboratory facilities for carrying them on.

Professor HASTINGS :—

8 *Physics.*

Laboratory work, supplemented by lectures on the theory of observation, with the method of least squares. Each year, some special department of physics will be selected for detailed treatment in a course of lectures and conferences. Lectures on the theory of electricity and electrical instruments occupy six months. The use of the laboratory is at the command of the student at all times.

Professor JOHNSON :—

9 *Agricultural Chemistry.* 2 hrs. both terms.

The Atmosphere, Water, and Soil, in their various relations to vegetation ; Tillage ; Fertilizers ; Rotation of crops ; Irrigation.

10 *Organic Chemistry.*

Parafines and their derivation, two hours weekly throughout the year ; Aromatic Compounds, two hours a week during the first term. Systematic review of the various classes of carbon compounds, with study of substances that illustrate current chemical doctrines or are important in nature and in the arts. Experimental demonstrations.

Professor GOOCH :—

11 *Experimental, Analytical, and Theoretical Chemistry.*

The courses offered to undergraduates in experimental chemistry (inorganic and organic) and in analytical chemistry (qualitative and quantitative) are open to graduates, and a course of reading and discussion of modern theories and current chemical doctrines may be taken by students who have had the proper preliminary training. In addition, the facilities of the Kent Laboratory and opportunity to engage in special lines of investigation are placed at the disposal of graduate students who are sufficiently advanced to undertake such higher work.

Assistant Professor WELLS :—

12 *Analytical Chemistry.*

Including a systematic course in Qualitative Analysis, a systematic course in Quantitative Analysis, and such special branches of Quantitative Analysis as are applied to Mineralogy and various departments of Metallurgy.

Instruction in analytical processes and chemical principles involved in them, is given to each student separately in the laboratory. Laboratories are open seven hours daily (except Saturdays).

Professor EATON :—

13 *Botany* (undergraduate course, p. 52). 2 hrs. 2d term.14 *Pteridology and Bryology* (undergraduate course, p. 52).
2 hrs. 1st term.15 *Botany.*

At present there are no facilities for the profounder study of Vegetable Physiology. Structural Botany is taught in a practical way to the extent of preparing and examining microscopic specimens of the various tissues and elements found in phaenogams, and in cryptogams, exclusive of fungi, including the use of the ordinary solvents, dyes, reagents, and mounting media used in this study. For the study of the North American Flora generally, and the higher orders of cryptogams, with regard to their identification and geographical distribution, the facilities are excellent, and, under proper restrictions, students may have the privilege of consulting the very extensive private collections of the professor in charge.

Professor VERRILL :—

16 *Zoology.*

The course includes laboratory practice, recitations, readings, and lectures. The laboratory work is varied according to circumstances, in order to accommodate, as far as possible those students who may wish to pursue special branches. A large part of the time is usually devoted to Comparative Anatomy, Morphology, and Systematic Zoology. Ample collections in the Peabody Museum, representing all classes of animals, are available for instruction, while the proximity to the sea makes it easy to provide fresh or living examples of most classes of marine animals for study and dissection.

Professor S. I. SMITH :—

17 *Elementary Anatomy and Histology.* 4 hrs. 1st term.

Laboratory work based on Huxley and Martin's Practical Biology. Four exercises, of a minimum of two hours each. The time is devoted principally to the dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the rudiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations.

18 *Comparative Anatomy and General Biology.*

Laboratory instruction is given with special reference to preparation for medical studies or as a preparation for further biological study and investigation. The instruction is adapted as far as possible to the special wants of the individual student.

During the last part of the second term, graduate or special students may attend the short course of lectures on embryology, with special reference to human morphology, given to undergraduates of the Sheffield Scientific School in the course in biology.

Professor CHITTENDEN :—

19 *Physiological Chemistry and Physiology.*

Graduate students having sufficient knowledge of analytical and organic chemistry and elementary physiology are received into the Sheffield Biological Laboratory at the beginning of the academic year, where they can pursue a course in physiological chemistry, physiology, and toxicology, extending throughout the entire year. The course necessitates, on an average, four hours of laboratory work per day, and attendance on lectures and recitations three or four times per week. Opportunities are also afforded for the carrying on of original investigations, either in physiological chemistry or experimental toxicology, and to students qualified for such work the laboratory is open during the entire day.

Students desirous of studying any special subject in physiological chemistry and having but a limited amount of time are also received, provided they are qualified by previous work to pursue the study advantageously.

VI. PURE AND APPLIED MATHEMATICS

Professor NEWTON :—

1 *Analytical Statics.*

The Dynamics of a Particle and of a System of Particles.

2 *Higher Geometry.*3 *Calculus.*

3 hrs. both terms.

4 *Integral Calculus and Mechanics.*

3 hrs. both terms.

Mean values and probability; differential equations; analytical statics and dynamics.

5 *Shooting Stars and Meteors.*

1 hr. both terms.

The mathematical theories of these bodies, and the treatment of the observations of them.

Professor CLARK :—

6 *Determinants*, with applications.7 *Theory of Curves and Surfaces.*8 *Definite Integrals; Differential Equations.*9 *Kinematics of a Rigid Body.*

Professor GIBBS :—

10 *Vector Analysis* (undergraduate course, p. 55).

2 hrs. 1st term.

11 *Vector Analysis* (undergraduate course, p. 55).

2 hrs. 2d term.

12 *Computation of Orbits.*

2 hrs. 2d term.

Vector methods are used.

13 *Mathematical Theory of Electricity and Magnetism.*14 *The a-priori Deduction of Thermodynamic Principles from the Theory of Probabilities.*15 *Electro-Magnetic Theory of Light.*

Propagation of the electrical disturbance in isotropic and aeolotropic media. Reflection of a surface where two such media meet: Dispersion of color.

Professor E. L. RICHARDS:—

- 16 *Higher Trigonometry.* 2 hrs. 1st term.
Exponential and logarithmic series; DeMoivre's theorem; theory of proportional parts; applications. A knowledge of the Calculus is desirable but not required.

Professor C. B. RICHARDS:—

Mechanical Engineering.

This course, arranged for candidates for the degree of Mechanical (or Dynamical) Engineer, is also open to Special Graduate Students, who will be allowed in certain cases to take selected parts. The leading topics are:

- 17 *Applied Mechanics.*
Including graphical methods in applied kinematics, and in the investigation of mechanisms working with friction; graphical determinations of the accelerations of the moving parts of machines; the strength of materials as affecting the proportions of machine elements; the applications of the principles of hydraulics to the construction and working of turbines and pumps.
- 18 *Thermo-Dynamics.*
Applications to the compound steam-engine, air compressors and compressed air motors, engines worked by volatile vapors, refrigerating machines, the warming and ventilation of buildings.
- 19 *Machine Design.*

In this course the student is engaged in practical exercises under the guidance of the professor in charge, investigating machinery, and designing and making working-drawings, specifications, and estimations for machines and manufacturing plant. In addition to the study of machines in general, either of the following subjects will at the option of the student receive particular attention: (a) Marine Engineering; (b) Railway machinery; (c) Pumping machinery and plant; (d) Machinery and plant for manufacturing. The student is required to make complete drawings, from new designs, of at least one important piece of machinery under one of these subjects. A compound marine engine and boilers, a locomotive, a turbine, driving centrifugal pumps, a blowing-engine for an iron furnace, are examples.

Candidates for the degree of Mechanical Engineer are required to take also a course in Mathematics, to sustain a final examination, and to present a satisfactory thesis on a subject approved by the professor in charge of the course.

A course in applied electricity, and, when the facilities of the physical laboratory permit, a course of laboratory work under the superintendence of the professor in charge; also, lectures on Industrial Legislation and Finance, and lectures on the higher Mathematics, are open to all students in this course.

Professor PHILLIPS :—

- 20 *Plane Analytical Geometry* (undergraduate course, p. 56).
2 hrs. both terms.
- 21 *Solid Analytical Geometry*. 1 hr. both terms.
Study of models of mathematical surfaces.

Mr. DUTCHER :—

[The following undergraduate courses are open to graduates.]

- 22 *History of Mathematics*. 1 hr. 1st term.
- 23 *Modern Geometry*. 1 hr. 2d term.
- 24 *Modern Geometry*. 2 hrs. 2d term.

Professor DuBois :—

Civil Engineering.

This course offers instruction for advanced graduate students as well as for those students who may be regular candidates for the degree of Civil Engineer. It embraces the following topics :

- 25 *Mechanics applied to Engineering.*

Including a course in Hydraulics, with reference to the various problems which arise in connection with water-supply, water-power, or irrigation; the efflux of water, flow through orifices and mouthpieces and over weirs, simple and submerged; questions of overflow and land damage; the effect of friction, contraction, enlargement, bends, valves, etc.; measurements of the discharge of pipes, rivers, and streams; the theory and design of water-motors; a course in Thermo-dynamics and its practical application to hot-air, gas, and steam engines, and the heating and ventilation of buildings.

- 26 *Surveys and Geodesy.*

Including methods of observation, base measurements, triangulation field work, theory of least squares, adjustment of observations, and computation of geodetic latitudes, longitudes, and azimuths.

27 *Construction and Design.*

Including the strength and properties of materials, construction and design of bridges, roofs, foundations, retaining walls, dams, and embankments, masonry, arches, sewerage and drainage, improvement of rivers and harbors, specifications and contracts, and the preparation of designs and working-drawings.

Candidates for the degree of Civil Engineer are required to take, in addition, a selected course in Mathematics, Practical Astronomy, and when the facilities in the physical laboratory permit, a course of laboratory work, under the superintendence of the professors in charge. They are also required to sustain a final examination, and to present a satisfactory thesis accompanied by appropriate designs, upon a subject approved by the professor in charge of the course.

To special students, not candidates for the degree of Civil Engineer, a selection of special topics is allowed. The lectures of the Department upon Railroad Administration, Industrial Legislation, and Finance, and upon the higher Mathematics, are open to all the students in this course.

28 *Practical Astronomy.*

Instruction, especially adapted to candidates for the degree of Civil Engineer, is given in Practical Astronomy applied to Geodesy, using as guides the treatises of Loomis and Doolittle. The practical instruction embraces the use: (1) of the Theodolite or Surveyor's Transit for determining time, latitude, and azimuth; (2) of the combined Portable Transit Instrument and Zenith Telescope for time, latitude by Talcott's and other methods, longitude by moon culminations, etc. The instrument used is of three-foot focus and 2.6 inches aperture, with fine alidade level and position filar micrometer. (3) The Meridian Circle (with five-foot telescope) is also available for transit and other observations, as well as the Clark Equatorial of nine-inch aperture, and a five-foot portable telescope by Clark, for occultations and other work.

Special students in Practical Astronomy are permitted to take up such branches of the subject, with the use of any of the above-mentioned instruments, as may best suit their purposes.

The time devoted to the subject will vary with the taste and purpose of each student and the time at his disposal. But for the degree of Civil Engineer, a good familiarity with the instruments named in 1 and 2, as well as with the corresponding computations and practical problems, is required.

Assistant Professor BEEBE :—

[The following undergraduate courses are open to graduates.]

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| 29 | <i>Surveying.</i> | 2 hrs. 1st term. |
| 30 | <i>Geodesy.</i> | 2 hrs. 2d term. |
| 31 | <i>Practical Astronomy.</i> | 2 hrs. 2d term. |
| 32 | <i>Elements of Astronomy.</i> | 1 hr. both terms. |
| 33 | <i>Descriptive Astronomy (Advanced).</i> | 1 hr. both terms. |

VII. MUSIC

Professor STÖCKEL :—

- 1 *Harmony.* 2 hrs. both terms.
Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody.
- 2 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.
Counterpoint of the I, II, III, and IV orders. Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.
- 3 *Forms.* 1 hr. both terms.
Motive, Phrase, Period, Part, Song. Rondo. Sonata. Orchestral Forms.
Lectures will be given on *the History of Music, sacred and secular. Aesthetics. Analysis:* Oratorio, Opera, Chamber-music, Symphony. *Biography:* Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

VIII. FINE ARTS

For the courses in the Art School, see the next page.

SCHOOL OF THE FINE ARTS

COUNCIL

The Council of the School consists of the President of the University, the permanent officers of the School, and four members by election : Donald G. Mitchell, LL.D., Edward E. Salisbury, LL.D., J. Davenport Wheeler, PH.B., and William W. Farnam, M.A.

FACULTY

Rev. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT

JOHN F. WEIR, N.A., M.A., *Director, and Professor of Painting and Design*

Rev. JAMES M. HOPPIN, D.D., *Professor of the History of Art*

JOHN H. NIEMEYER, M.A., *Professor of Drawing*

JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*

-----, *Instructor in Perspective*

-----, *Instructor in Architecture*

G. ALBERT THOMPSON, *Librarian*

ORGANIZATION AND COURSE OF STUDY

The School aims to provide thorough technical instruction in the Arts of Design, viz : Drawing, Painting, Sculpture, Architecture, and Copperplate Etching ; and to afford a knowledge of such branches of learning as relate to the Philosophy, History, and Criticism of Art. As a professional School of Art it aims to furnish a thorough course of study in the practice of the studios ; and as a department of the University it aims to provide instruction in Art as a constituent part of the scheme of general culture. These departments, of Practice and Criticism, may be regarded as distinct or correlative.

THE TECHNICAL COURSE

The technical instruction, for professional students, is based upon methods well adapted to discipline the aesthetic faculties and ground the pupil in the elements, or fundamental principles, which constitute the grammar of Art, as a foundation for all forms of special application. This instruction is arranged as follows :

IN DRAWING, the work is distributed over a three years' course. During the first year the practice of the studio is confined to drawing from the "Antique," from plaster casts ; during the second year, to drawing from casts and the living model ; and during the third year, to drawing from the living model, nude and draped. The classes under the supervision of the Instructor in this department are the antique portrait, nude-model, sketching, and composition classes : and until the Chairs of Sculpture and Copper-plate Etching are filled, these branches are included under the same supervision. Students showing the requisite proficiency in any class, will be advanced to the work of the second or third year according to individual ability. Instruction in this department precedes all special courses in the various branches of Art ; no pupil is allowed to enter any of the advanced classes without this necessary qualification in that degree of proficiency which is deemed essential as a preliminary ground for such studies. Lectures on the principles of decoration, as applied in the various branches of Decorative Art, are included in this department.

IN ANATOMY, instruction is given in the form of lectures, and by drawings made from specimens and casts. The lectures are divided into two courses, for elementary and advanced classes. Each course consists of twenty lectures, one lecture a week to each class, continuing through the Winter and Spring Terms. The elementary course is devoted to the study of such portions of the human body as manifestly affect the external forms, the aim being to familiarize the pupil with the characteristics of those parts, independently of their combined action in modifying the external forms. Drawings of these parts are made by the pupils, in connection with the subjects discussed by the lecturer. The advanced course includes the whole structure of the human form in its plastic anatomy and mechanism. The skeleton and muscular system are viewed as a whole, and the modification of the external forms studied in action and repose. The subjects of proportion, equipoise and motion, and expression, are studied, and original drawings required in illustration, made from life, or from Greek sculptures, by reducing the same to their anatomical structure by the imagined removal of the integument.

IN PERSPECTIVE, the instruction is likewise given in the form of lectures, divided into two courses of twenty lectures each, for an elementary and an advanced class, illustrated by examples drawn on the black-board, illustrating the principles under discussion. The lectures are supplemented by practical exercises. The student is required to work out examples in the interim between the lectures. The elementary course includes the principles of plane geometry underlying perspective,—simple projections, or plan and elevation drawings. Objects are treated with reference to their true dimensions, as preliminary to their correct representation on a flat surface, as seen in perspective, at various distances, and from different points of view. The advanced course includes the study of shadows and reflections, and the application of the general principles of perspective to interior and exterior views. The pupil is required to work out problems in illustration of all of the principles involved in linear perspective in its application to the various branches of art.

IN PAINTING, the work is divided into an elementary and an advanced course of study. The first studies are devoted to the acquisition of a knowledge of the elements of technical practice, by painting from still-life. When the pupil has acquired some knowledge of the means in representing objects in color, as to their values and relations, the remainder of the course is given to studies of the living model, in portrait, figure, and composition. This is continued while the pupil remains in the School. The course in painting implies, on the part of the pupil, a requisite knowledge of drawing, and drawing from the living model is continued throughout the course in connection with the work in color. The practice of the studio is supplemented by illustrated lectures on Color, Chiaroscuro, Composition, and such other special topics relating to the principles and means of Art as are comprehended in its theory and practice.

IN MODELING, a course is provided, including the anatomical lectures, and drawing. The work in this branch of instruction consists in first modeling in clay, from casts of Greek fragments, the head and other extremities of the human form, and then the whole figure. When the student has sufficient command of the method and means, the rest of the course is devoted to modeling from the living subject.

IN ARCHITECTURE, the course includes drawing, as provided in that special department in its elementary instruction, as well as the course in isometric projection and perspective. Under the instructor in Architecture, studies are made from notable examples of the various orders and styles, in chronological order, with original projects in illustration to be worked out by the student. The means and methods of preparing

plans, elevations, sectional and working drawings, and perspective views in india-ink and water-color, are comprehended in the elementary part of this course. Arrangements may be made with other Departments of the University, by which students in Architecture can obtain the requisite instruction in mathematical subjects having a direct bearing on this art, including plane geometry, stone-cutting, the nature and strength of materials, and the principles of construction and engineering.

The course includes a general and comprehensive view of the historic development of the various architectures, with a comparative analysis of the same with respect to their principles of construction and decoration.

IN COPPER-PLATE ETCHING, a course is provided, and a room set apart for this special study, containing all the necessary applications of this art, including a press. The instruction in this branch of art is, for the present, in charge of the Professor in Drawing.

COURSE IN THE HISTORY AND CRITICISM OF ART

The instruction in this department includes courses of lectures by the various Instructors of the School, arranged to include both professional students in regular course, and classes from other departments of the University where it is recognized as an "elective" study.

IN THE HISTORY OF ART, the course is as follows: 1. *The Origin and Philosophy of the Art* principle—books chiefly referred to, Hegel, Lotze, Ruskin; 2. *Egyptian Art*—Perrot and Chipiez' "Histoire de l'Art de l'Antiquité," etc.; 3. *Oriental Art*, with special reference to its influence on Greek Art—Schnaase, Fergusson, Perrot and Chipiez, etc.; 4. *Greek Art*, Principles of Greek Art; Pelasgic construction, and the three orders of Greek Architecture; Greek Sculpture, including the Archaic, Pheidian, and Naturalistic periods, and the Graeco-Roman, with recent researches at Olympia and other places; *Greek Painting*, Ceramic, Mosaic, and Mural—Winckelmann, Lessing, Ottfried Müller, J. Overbeck, Schnaase, Friedrichs, Charles Blanc, and Woltmann; 5. *Roman Art*, Fergusson, Dennis, Emil Braun, etc.; 6. *Beginnings of Christian Art*, classic sources and types; Religious Art; early Christian Painting and Iconography; early Christian Architecture—Lindsay, Fergusson, etc.; 7. *Byzantine Art*, Oriental, Christian, and Saracenic forms—Fergusson, Ruskin, etc.; 8. *Medieval Art*, Romanesque and Lombardic; Tuscan, Southern and Northern Gothic—Viollet-Le-Duc, Ruskin, Fergusson, etc.; 9. *The Renaissance*; rise of the Florentine School, and the Schools of Sienna, Umbria, Lombardy, Rome, and Venice

—*Laszlo, Lanzi, Kugler, Ruskin, Crowe and Cavalcaselle, Symonds, etc.*; 10. *Modern Art*—Schools of Spain, Holland, Germany, France, and England; the Pre-Raphaelite, Romantic, and Impressionist movements; Art in America. The lectures are illustrated by means of the hydro-oxygen lantern.

IN THE PRINCIPLES AND MEANS OF ART, a course of lectures is provided, fully illustrated, embracing the subjects of Line, Chiaroscuro, Color, Composition, and Expression,—following the path of the artist in his work. A course of lectures discussing the technical methods of the Painter, the Sculptor, the Architect, and the Engraver, including an historic account of the technical development of these arts, is also provided.

The regular prescribed course of study, for professional students, covers a period of three years, but pupils are encouraged to remain in the School and pursue advanced studies after the expiration of the prescribed term. The fees are at the rate of ten dollars per month, with an annual fee of five dollars. No pupil is received for a term of less than three months. The tuition fee for a fourth year's attendance is one-half the usual rate; pupils remaining for a longer period are classed as "honorary students;" as such they are exempt from the payment of a tuition fee, but are charged an annual fee of ten dollars. The School is open to both sexes; no pupil is received under fifteen years of age. All applications for admission should be made through the Director. The School opens on the 1st of October, and the closing exercises are held on the 1st of June. At the end of the School-year an exhibition of the work of the various classes of pupils is held, continuing open through the summer months.

AN ELECTIVE COURSE is provided for the Junior and Senior Classes in the Academical Department, as set forth in the Prospectus of Elective Studies in that Department of the University. Also a special course in FREE-HAND DRAWING is arranged to meet the requirements of students in the Sheffield Scientific School, extending through the first term of the College year.

CERTIFICATES are awarded to pupils remaining in the School through the regular course of three years ; and the Degree of BACHELOR OF FINE ARTS is conferred by the University upon those students who have fulfilled the requirements of a prescribed course of advanced studies in the several departments of instruction, and have submitted an approved original composition in painting, or sculpture, and a satisfactory thesis on some topic relating to the Fine Arts.

The "ETHEL CHILDE WALKER PRIZE," the income from a foundation of two hundred dollars, is awarded annually, under certain restrictions, to the most deserving pupil in the professional department.

THE ART LIBRARY, containing a collection of technical hand-books, current art-periodicals, and portfolios of etchings and engravings, is open, during specified hours, for the use of students. The pupils of the School are entitled to the use of the University Library, and to such other privileges, under the usual restrictions, as are granted to students in the other Departments.

THE COLLECTIONS embrace the "Jarves Gallery of Italian Art," numbering one hundred and twenty-two paintings dating from the 11th to the 17th centuries ; the "Ehrich Gallery of Dutch and Flemish Art," numbering one hundred paintings ; the "Trumbull Gallery" of historical portraits and other works, numbering fifty-four pictures ; a collection of contemporaneous art, numbering about fifty paintings ; a small collection of original sketches by old masters ; a collection of about one hundred and fifty casts and marbles, representative of the various periods of Greek and Renaissance Art ; a valuable collection of Chinese porcelains and bronzes, loaned by Mr. Frederick Wells Williams ; a series of very valuable Belgian wood-carvings of the 16th century, deposited in the School by Mrs. A. C. Alden ; and a collection of Braun autotypes, and other reproductions, numbering about two hundred. The Collections are open daily for the use of students ; and to the public, during the winter, from 1 to 5 P. M., and during the summer from 9 A. M. to 6 P. M.

The Collections of the School are open free to all students in the Academical Department and the Sheffield Scientific School. Season-tickets, at fifty cents each, admitting the holder to the collections throughout the year, are furnished to students in the other Departments of the University.

The Art Building was erected in 1864, by Mr. Augustus R. Street (Yale College 1812), of New Haven, at a cost of about \$220,000. The School was partially endowed, to the extent of \$75,000, by Mrs. Street, who also made other gifts in aid of its objects.

DEPARTMENT OF THEOLOGY

(YALE DIVINITY SCHOOL)

FACULTY AND INSTRUCTORS

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
REV. GEORGE E. DAY, D.D., *Dean of the Faculty*
REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*
REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*
REV. LEWIS O. BRASTOW, D.D., *Professor of Homiletics and the Pastoral Charge*
REV. EDWARD L. CURTIS, PH.D., D.D., *Professor of the Hebrew Language and Literature*
REV. GEORGE B. STEVENS, D.D., *Professor of New Testament Criticism and Interpretation*
FRANK C. PORTER, B.D., PH.D., *Professor of Biblical Theology*
-

- MARK BAILEY, M.A., *Instructor in Elocution*
GUSTAVE J. STOECKEL, MUS.D. (*University Professor of Music*), *Instructor in Vocal Music*

SPECIAL LECTURERS

- REV. A. M. FAIRBAIRN, D.D., Principal of Mansfield College, Oxford, England, LYMAN BEECHER LECTURER, *on the Tendencies of Modern Theology*
REV. JOHN HALL, D.D., LL.D., of New York City, *on the Minister as Preacher, as Director, and as Citizen*
REV. JAMES O. MURRAY, D.D., Dean of Princeton College, *on English Literature*
PRESIDENT MERRILL E. GATES, LL.D., Amherst College, *on the Preacher as a Poet and the Poet as a Preacher*
HON. EDWARD J. PHELPS, LL.D., Kent Professor of Law (subject to be announced)
REV. EDWARD A. LAWRENCE, M.A., of Baltimore, Md., *on Modern Missions in the East*
LEONARD J. SANFORD, M.D., *on the Preservation of Health*

The present annual term of study, commencing on Thursday, September 24, 1891, will continue until the third Wednesday in May, 1892, when the Anniversary and the Annual Meeting of the Theological Alumni will be held.

CONDITIONS OF ADMISSION

The conditions of admission are membership in some evangelical Church, or other satisfactory evidence of Christian character, and a liberal education at some College or University, or, in exceptional cases, an equivalent preparation for theological studies. Students of every Christian denomination, in case they are possessed of these qualifications, are admitted. Blank forms of application may be obtained by addressing the Dean of the Faculty, Professor George E. Day, or any of the other Professors.

It is expected that every student will be promptly on the ground at the beginning of the session. Rooms are assigned in the order of application, but no room is reserved for any applicant who neglects to appear beyond one week after the opening of the term.

COURSE OF STUDY

THE REGULAR COURSE OF INSTRUCTION occupies three years, and is arranged in the following order :

JUNIOR YEAR

Professor DAY will lecture once a week on the Encyclopedia and Literature of Theology, including a survey of the various branches of Biblical Literature, and an account, more or less extended, of the prominent writers and their works in the several departments of theological science.

Professor CURTIS will give instruction five times a week in the grammatical principles of the Hebrew language in connection with the first eight chapters of Genesis ; translation of these chapters from English into Hebrew and the acquisition of a vocabulary, followed by sight-reading of Judges, Ruth, i and ii Samuel, and selected Psalms, and the critical reading of Deut. i-xi, with study of Hebrew syntax, especially the tenses and the sentence ; also, the reading analytically of Genesis, Exodus i-xi, and some of the more important laws in Exo-

dus, Leviticus, and Deuteronomy, with a study of the facts, principles, and theories of the Hexateuchal criticism. Provision will be made for the instruction of an advanced class in Hebrew.

Professor STEVENS will give instruction five times a week in the Greek New Testament. The studies of the year will embrace the following subjects: General Introduction to the New Testament, including the peculiarities of Hellenistic Greek, the preservation of the New Testament in manuscripts, and their use in textual criticism; the Synoptic Gospels, studied on the basis of Mark, with special attention to the discourses and parables of our Lord; the first eight chapters of the Acts of the Apostles; the life and work of the Apostle Paul as recorded in the Acts and reflected in his letters, and the critical interpretation of one or more of his principal Epistles. Essays on themes connected with these studies will be prepared by the students and discussed in the presence of the class.

President DWIGHT will lecture on the interpretation of the Gospel of John.

Professor HARRIS will lecture twice a week on the Philosophical Basis of Theism, and the Self-Revelation of God.

Professor BRASTOW will give instruction by lectures and by critical exercises upon the use of the topic in preaching, making Claude's Essay on the Composition of a Sermon a partial basis for the work.

MIDDLE YEAR

Professor HARRIS will lecture five times a week on Systematic Theology. This course will include a full and systematic investigation of the doctrines of Christianity, and of existing questions and controversies concerning them. The subjects will be treated in the following order: the Attributes of God; the Trinity; God, the Creator, and his End in Creation; God's Providential Government; God's Moral Government; Sin; Redemption—the Atonement, Regeneration, Justification by Faith, the Spiritual Life; the Kingdom of Christ on Earth, its Progress and Triumph; Eschatology; the Christian Church. Examinations on the topics discussed are connected with the lectures, and entire freedom of question and discussion at every lecture is invited.

Professor FISHER will give instruction three times a week on General Church History, embracing especially the branches of the subject which are not included under the History of Doctrine. They comprise the following topics: the Nature, Divisions, and Sources of Church History, with a Review of the Literature on the subject; the Old or Preparatory Dispensation in its relation to Christianity; the condition of the Graeco-Roman World at the Introduction of the Gospel; the Establishment of Christianity, and the Conflicts of the Apostolic Age; the spread of Christianity, including especially the Conversion of the

Roman Empire and of the Teutonic Nations ; the Changes in Ecclesiastical Polity in the Early Centuries ; the Organization of Latin Christianity under the Papacy : the relations of the Papacy and the Church to Civil Society in the Middle Ages ; the Protestant Reformation, with its Causes and the Systems of Polity adopted by the different Protestant Churches ; Christian Life, and its Characteristic Features in the Successive Eras (including the Rise and Subsequent History of Monasticism) ; the History of Christian Worship.

Professor CURTIS will read with the class twice a week selections from the Poetical and Prophetical Books of the Old Testament. Special attention will be paid to exegesis. Original work of this character will be required of the students. Instruction will be given in Old Testament Introduction, both general and specific. Members of the class, who so desire, will have an opportunity to study the Biblical Aramaic.

Professor STEVENS will lecture twice a week on Special New Testament Introduction. In connection with this course those books of the New Testament which have not been studied in the Junior year will be analyzed, their occasion, aim, and peculiarities will be described, and their course of thought carefully traced.

Professor BRASTOW will give instruction twice a week, by lectures and critical exercises, upon the history of preaching and upon distinguished modern preachers. The critical exercises will consist of analyses by the members of the class of the subject-matter and rhetorical style of the products of different preachers. In this way the principles of Rhetoric will be applied to the work of preaching, with special reference to the cultivation of an appropriate pulpit style.

Professor PORTER will give instruction in the Biblical Theology of the Old Testament, with special attention to the historical progress and the preparatory character of the religious teaching of Israel.

SENIOR YEAR

Professor BRASTOW will give instruction five times a week, by lectures and critical exercises, in different branches of Practical Theology, as follows : he will lecture three times a week during the first half of the year on Homiletics, and twice a week will conduct a class exercise in the criticism of sermons and plans of sermons. It is proposed to make these practical exercises a prominent feature in the course. He will also give private instruction, at least once during the year, to each member of the class in connection with the criticism of sermons, and will give personal aid in the study of Homiletical and General Literature. He will lecture three times a week upon Pastoral Theology, during the last half of the year, including the calling, training and personal and official duties of the Christian ministry, with special reference

to the leadership of the church in its various practical activities as connected with the interests of the Kingdom of God. He will also conduct class discussions of questions of practical interest relating to the work of the church.

Professor FISHER will lecture three times a week, through the year, on the History of Christian Doctrine and on Symbolical Theology. The course includes an explanation of the Origin of Theology as a Science, and a discussion of True and False Theories of the Development of Doctrine; a Survey of the Influence of Philosophy on Theology in the successive Eras; a review of Authors in the field of Theological Literature; a History of Theological Thought in the Church, in relation to the several Doctrines of the Christian system, down to the present time; an account of the Comparative Tenets of the different religious bodies into which Christendom is divided.

Professor PORTER will lecture three times a week on the Biblical Theology of the New Testament. The teaching of Jesus and the different types of Apostolic teaching will be examined in their historical character and in their relations to one another and to the religious ideas of the time. The aim will be both to trace the history of religious thought in the Apostolic age and to set forth the central teachings of the New Testament in their unity. The views of important writers on the subject will be critically examined, and topics will be assigned for investigation by the members of the class.

Professor DAY will lecture on select portions of the Old Testament and will read once a week or oftener with those who wish to prosecute the study of Syriac, the Peshito version of the New Testament.

GRADUATE OR FOURTH YEAR CLASS

Into this class, which was established in 1879, only those who have completed a three years' course in this or some other Theological School can be admitted. It is designed to meet the wants of those who desire to pursue an advanced course of general theological study, or to apply themselves to special subjects of reading or investigation in any of the departments of theology for one year or more, under the advice and direction of the Professors and with the helps furnished by the Reference and University libraries.

The following subjects are announced for the coming year, but in some cases others may be added or substituted for them, after consultation with the class:

- I. Ex-President PORTER : Special Topics in Philosophy and Theology.
- II. Professor DAY : Comparison of the more important new renderings in the Anglo-American Revision of the Psalms with the several recent Revisions on the Continent.
- III. Professor HARRIS : Lectures on topics in the Philosophy of Religion.
- IV. Professor FISHER : Comparative Study of the Religions of the World.
- V. Professor BRASTOW : The History of Preaching from the Scholastic Period to the present day ; The homiletical and catechetical use of the Parables of the Lord.
- VI. Professor CURTIS : Reading of Orelli's Old Testament Prophecy as a basis for the study of the Messianic Idea of the Old Testament in its historic development.
- VII. Professor STEVENS : Special studies in the Life and Teachings of the Apostle Paul.
- VIII. Professor PORTER : Jewish (Palestinian and Alexandrian) Theology at the time of Christ, and its Relation to Old and New Testament Theology.

Students will also be aided in their private reading and investigations by the Professors.

Members of the Graduate Class are expected to express the purpose of continuing at the Seminary during the entire term. They will be furnished with rooms free of rent, and no charge will be made for instruction or the use of libraries.

OPTIONAL STUDIES IN EITHER YEAR

Instruction will be given free of charge by Dr. Sanders, the instructor in the Graduate Department of the University, to students who desire to pursue the study of Arabic or Assyrian.

Professor DAY will read with those students who desire to become familiar with the theological literature of Germany and have made sufficient progress in the language, some standard work in German, with critical remarks and references to the ablest works on special topics.

Professor WHITNEY will give instruction to those who desire it in Sanskrit.

Instruction in Vocal Music will be given to students who desire it, by Dr. STOECKEL, the Professor of Music in the University.

Professor LADD's University Course on Psychology, Metaphysics, the Theory of Cognition, and the Philosophy of Religion, is particularly intended to meet the wants of Theological students.

The members of the Theological School, on conditions prescribed by the Faculty, are also allowed to attend, free of expense, any of the lectures in the College, and also in the Sheffield Scientific School, many of which are on subjects of special importance to pastors. These lectures are on the following subjects: *Moral Philosophy*, by Ex-President PORTER; *Intellectual Philosophy*, by Professor LADD; *History*, by Professors WHEELER and ADAMS; *Evolution and Cosmogony*, by Professor DANA; *Language*, by Professor WHITNEY; *Physical Geography*, by Professor BREWER; *Agricultural Chemistry*, by Professor JOHNSON; *Practical Agriculture*, by Professor BREWER; *Botany*, by Professor EATON; *Zoology and Entomology*, by Professor VERRILL.

Those who intend to become Foreign Missionaries have the further privilege of attending the lectures in the Medical School, on the payment of the matriculation fee of five dollars.

These opportunities for obtaining wider culture will be of special value to graduates of Colleges and others who desire the means of pursuing studies to which they have not attended, or in which they seek further instruction.

ELOCUTION

A thorough course of instruction in Elocution is given to the students which is progressive in its character and extends through the three years of study for each class.

To the Junior Class a full course of lectures is given on the principles of logical and emotional analysis and expression, and on oratorical action and vocal culture. This is followed by individual practice in speaking and reading.

In the Middle year is added extended and frequent special practice in Scripture and hymn reading and the reading and delivery of sermons.

To the Senior Class the instruction is given mainly in private lessons, and is designed to meet, so far as possible, the special needs of each individual in his preparation for the duties of the preacher's office.

SACRED MUSIC

I. Harmony: two hours a week, acoustics, intervals, formation of scales, chords and their combinations, modulation, suspension and harmonization of melodies, with special reference to sacred song.

II. Singing: two hours a week, reading music at sight and elementary instruction in vocal culture.

The course in harmony will be the same as Course 118 in the Academical Department (p. 57). If any of the students should desire to continue their musical studies after having completed the course in harmony they may do so in connection with the further musical instruction offered in the Academical Department.

EXERCISES IN PUBLIC SPEAKING

There will be for all the classes in the MARQUAND CHAPEL, under the direction of Professor BRASTOW and in the presence of the Faculty, once in two weeks, the delivery of an address, followed by criticism and discussion. Every alternate week there will be an exercise, designed to cultivate the power of the students in *extemporaneous speaking*, by the discussion of subjects of practical importance. Weekly debates are also held by the students in societies of their own.

LICENSE TO PREACH

The regular time for applying for license is at the close of the second year's study, before which time the members of the Seminary are not allowed to preach.

PUBLIC WORSHIP

Prayers, with reading of the Scriptures and singing, are attended every morning in the MARQUAND CHAPEL. It is optional with each student whether to attend worship on the Lord's day in the College Chapel, or in one of the City Churches; but whatever may be his decision, it is hoped that he will engage, so far as may not be inconsistent with the prosecution of his studies, in some form of City Mission, Sabbath School, or other benevolent labor, for which constant opportunities are offered.

DEGREE

The Degree of Bachelor of Divinity is conferred by the President and Fellows of the University on all members of the School who at the end of the Senior year pass the prescribed examination, and present an approved thesis on some topic of theology.

LIBRARIES

The *University Library*, containing 155,000 volumes in the various departments of literature and science, is especially rich in its theological part, and stands in this respect among the first libraries in the country. It is open seven hours on every secular day for consultation and for the drawing

of books. The Divinity students in common with the other members of the University have access to it without charge.

The *Reference Library* of the Divinity School, established by the late Henry Trowbridge, Esq., of New Haven, and now placed in the Bacon Memorial Hall (erected by the late Frederick Marquand, Esq.), is open for consultation during several hours of the day. It contains more than 3,000 carefully selected volumes, in every department of theological literature, and is designed to take the place, for each student, of a large and well selected private library. The latest books and periodicals are constantly added to it as they appear.

The valuable *Library of Church Music* belonging to the late Dr. Lowell Mason, was given to the Seminary by his family. This Library, which is one of the largest of its kind in the country, is placed in one of the rooms in the West Divinity Hall.

The *Library of Foreign Missions*, just established, is designed to embrace the History of Modern Missions, as carried on by all denominations and in all countries. This Library, to which large additions will be immediately made, is placed in the room formerly occupied by the Trowbridge Reference Library.

The united Libraries of the College Literary Societies, containing 31,000 volumes in general literature, are accessible to theological students.

PHYSICAL EXERCISE

The College Gymnasium is open to the students of this Department at a small charge.

DIVINITY HALLS

The East Divinity Hall, which was erected in 1870, contains in addition to the Lecture Rooms for the three classes and rooms for the Professors, accommodations for about sixty students. The West Divinity Hall (parallel with the

other building and adjacent to it) was erected in 1874, and has, in addition to the room containing the Lowell Mason library, accommodations for ninety students. The rooms in these buildings are warmed by steam, and lighted by gas, and are provided with all necessary furniture, except bed-clothes, which may be brought by the occupants, or will be furnished at a moderate charge by the Janitor. The assignment of rooms to new students is made in the order of their application. A number of the rooms are designed for two students, but so far as practicable, single rooms will be assigned to applicants for admission who desire to room alone.

EXPENSES AND PECUNIARY AID

Students have only to make pecuniary provision for about eight months of study annually. In the four months of vacation, from May to September, they have the opportunity to engage in Home Missionary or other labor, with remuneration for their services.

The expenses for the annual session of 34 weeks are \$15 for each student for care of room and other incidental expenses; \$25 to \$30 for fuel and lights, or one-half of this sum in case two students occupy the same room. No charge is made for instruction or room rent, or for the use of Libraries.

The expense for board will be from \$3.25 to \$4 a week, at which prices most of the students have obtained good board during the past year.

Students of the Junior, Middle, and Senior Classes, whose circumstances require it, will receive \$100 a year from the income of Scholarships and other funds belonging to the School. Additional aid to the amount of \$75 annually is offered by the American College and Education Society to its beneficiaries. These means of assistance cover all the expenses mentioned above.

After the close of the second year in May, students have opportunities to receive remuneration for preaching in the neighboring churches.

In general, it may be said that the aid which is provided for every young man, of any evangelical denomination, who gives promise of usefulness in the ministry, is sufficient, in connection with his own efforts, to enable him to complete a course of theological study.

GRADUATE FELLOWSHIPS.

A GRADUATE SCHOLARSHIP OR FELLOWSHIP was established in this department, in 1876, as a memorial of the late Mrs. Aurelia D. Hooker, of New Haven. It is assigned at graduation to that member of the class to which it is offered who, having been connected with the School through the entire course and being of approved Christian character, has, in the judgment of the Faculty, made such proficiency in theological studies as best to qualify him for the advantages offered by this foundation for the further prosecution of the same. The person to whom the scholarship is given receives the annual income (\$600) for two years after graduation, and is expected to pursue a course of theological study under the direction of the Faculty, either as a resident at the School, or in case he may prefer to do so, in Europe or Palestine. The HOOKER FELLOWSHIP was offered to the class which entered the Divinity School in September, 1890, and is also offered to the class which enters in September, 1892.

A SIMILAR GRADUATE FELLOWSHIP yielding \$500, which has been established as a memorial of the late Mrs. Susan B. Dwight, of New Haven, and will afford to the student who shall receive it the same privileges for one year after graduation, is offered on the same conditions, to the class which entered the School in September, 1891.

DEPARTMENT OF MEDICINE

(YALE MEDICAL SCHOOL)

FACULTY

REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
MOSES C. WHITE, M.D., *Professor of Pathology*
CHARLES A. LINDSLEY, M.D., *Professor of Theory and Practice of Medicine*
WILLIAM H. CARMALT, M.D., *Professor of Surgery*
JAMES CAMPBELL, M.D., *Professor of Obstetrics and Diseases of Women and Children*
THOMAS H. RUSSELL, M.D., *Professor of Clinical Surgery and Surgical Anatomy*
HERBERT E. SMITH, M.D., *Professor of Chemistry, and Dean*

LOUIS S. DEFOREST, M.D., *Instructor in Clinical Medicine*
OLIVER T. OSBORNE, M.D., *Instructor in Materia Medica and Therapeutics*
HARRY B. FERRIS, M.D., *Instructor in Anatomy*
GRAHAM LUSK, PH.D., *Instructor in Physiology*
ROBERT O. MOODY, B.S., *Instructor in Histology*

OTHER INSTRUCTORS

Professor WILLIAM H. BREWER, PH.D., *Lecturer on Sanitary Science and Public Health*
HENRY P. STEARNS, M.D., *Lecturer on Insanity*
SAMUEL B. ST. JOHN, M.D., *Lecturer on Ophthalmology*
HENRY FLEISCHNER, M.D., *Lecturer on Dermatology and Clinical Medicine*
FRANK H. WHEELER, M.D., *Assistant in Pathology*
CHARLES E. PARK, M.D., *Assistant in the Surgical Clinic*
CHARLES J. FOOTE, M.D., *Demonstrator of Bacteriology and Assistant in the Surgical Clinic*
HENRY L. SWAIN, M.D., *Lecturer on Diseases of Throat and Ear*
JOSEPH H. TOWNSEND, M.D., *Assistant in the Medical Clinic*
EDWARD L. BLISS, M.D., *Assistant in Chemistry*

In the fall of 1810 a charter was granted to the President and Fellows of Yale College and the President and Fellows of the Connecticut Medical Society, authorizing them to unite according to the terms of certain "Articles of Union," before agreed upon, for the establishment of a medical seminary, to be styled the Medical Institution of Yale College. Two years later the School was organized, and in the fall of 1813 instruction was begun. The Faculty consisted of four professors, appointed by the College Corporation from nominations by the Medical Society. Degrees were conferred by the College on the recommendation of the board of examiners, consisting of the members of the Faculty and an equal number appointed by the Medical Society. The instruction consisted of didactic and clinical lectures and dissections during the short winter course. Later, instruction was given during the spring months also, and from time to time the number of instructors was increased.

That this dual nature of the School and the method of instruction were wisely planned is shown by the position which the School took at once in the medical instruction of the time. But changes gradually took place in the relations between practitioners and students of medicine, and even greater changes in medicine itself, which demanded a different kind of instruction. This School responded early to this demand, and in 1879 an entrance examination was imposed and a graded course extending over three full years and including considerable laboratory instruction was adopted. In 1884, by an agreement with the Medical Society, the College authorities assumed the entire control of the School.

In reorganizing the School as an integral part of the University, the inherent defects in the older and still common method of instructing chiefly by didactic lectures, were recognized, and the methods now employed are similar to those in vogue in the other Departments.* Didactic lectures are still employed as best in some branches, but recitations from assigned readings, with explanatory lectures, labora-

tory work, and personal instruction in the clinics, constitute the main portion of the curriculum. The School has well equipped laboratories for the study of anatomy, histology, chemistry, physiology, and pathology, and the student spends much of his time in them during the first two years. In the second year he begins the practical branches of medicine, to which he devotes the third year. While the attention of the student is particularly directed to those branches which can be studied to advantage only in a well equipped medical school, the value of clinical instruction is fully appreciated, and amply provided for. The details of the course of instruction are given below.

TERMS OF ADMISSION

Candidates for admission to the course leading to the degree of Doctor of Medicine, must be at least eighteen years old, and must present satisfactory testimonials of moral character from former instructors or physicians in good standing.

As evidence that he has had a sufficient preliminary education, each candidate must present proof that he has passed the matriculation examination of some scientific, literary, or professional college in good standing; or present testimonials from the proper officer that he has pursued the course at some high school, academy, or preparatory school, approved by the Faculty; or he must pass an examination in the following subjects:

1. **ENGLISH:** An essay of about two hundred and fifty words on some familiar subject to be announced at the time of the examination.

2. **MATHEMATICS:** The metric system of weights and measures. *Algebra*; to Quadratics. *Plane Geometry*; to the extent included in Wentworth's *Plane Geometry*, Books i-iii.

3. **PHYSICS:** Gage's *Elements of Physics*, or some equivalent work.

These examinations are conducted in writing, and are held at the Medical School at 9 A. M., on the Wednesday preceding the opening of the first term, and on the Thursday following Commencement.

Copies of the questions of previous examinations will be furnished on application to the Dean.

In conjunction with other Departments, matriculation examinations will be held also on the Thursday after Commencement, in Chicago, Cincinnati, and San Francisco. Particulars of the time and place will be announced in the local papers. A fee of five dollars is charged for admission to examinations, held out of New Haven.

Students who have studied elsewhere in recognized medical schools, may present themselves for examination three weeks before Commencement and enter the examinations of the first year, or of the first and second years, according to their time of study. The results of these examinations will determine the class to which they belong.

Applicants for advanced standing who present themselves at other times of the year will be assigned to such classes as from their representations they seem to be fitted for, but at the next annual examination they will be examined in all of the studies previously passed by their class, as well as in those for the current year.

TERMS AND VACATIONS

The annual sessions of the School are divided into three terms, covering thirty-four weeks, exclusive of a vacation of three weeks at Christmas, and a recess in the spring, usually of one week.

The first term begins with the first Thursday of October, and continues eleven weeks. The second term begins three weeks after the close of the first, and continues twelve weeks. The third term is eleven weeks in length, ending with Commencement. (See Calendar, p. 6.)

COURSE OF INSTRUCTION

JUNIOR YEAR:

Chemistry: Illustrated Lectures and Recitations, 4 hours,* Professor Smith. Chemical Laboratory, 8 hours, Professor Smith and Dr. Bliss.

* In each week.

Anatomy : Lectures and Recitations, 3 hours, Dr. Ferris. Dissections, four times a week, Dr. Ferris. *Autopsies*, Professor White.

Histology : Laboratory work, 3 hours, Lectures and Recitations, 2 hours, Professor White and Mr. Moody.

Physiology : Recitations and Demonstrations, 3 hours, Dr. Lusk.

MIDDLE YEAR :

Anatomy : Lectures and Recitations, 3 hours, Dr. Ferris. Dissections, four times a week.

Materia Medica and Therapeutics : Lectures and Recitations, 3 hours, Dr. Osborne.

Physiology : Lectures and Recitations, 1 hour, Dr. Lusk.

Pathology : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White.

Medicine : Lectures and Recitations on General Medicine, 3 hours, Professor Lindsley.

Surgery : Lectures on General Surgery, 3 hours, Professor Carmalt.

Obstetrics and Diseases of Women and Children : Lectures and Recitations, 2 hours, Professor Campbell.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital.

SENIOR YEAR :

Pathology : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White. *Bacteriology*, Dr. Foote.

Medicine : Lectures on General Medicine, 3 hours, Professor Lindsley. Dispensary Clinic, 3 hours, Dr. DeForest. Hospital Clinics, weekly, Dr. DeForest and Dr. Fleischner. *Insanity*, 1 hour, for nine weeks, Dr. Stearns. *Sanitary Science*, Professor Brewer, and *Toxicology*, Professor Smith, 1 hour, one term.

Surgery : Lectures on General Surgery, 3 hours, Professor Carmalt. Dispensary Clinic, 2 hours, Professor Carmalt. Hospital Clinic, once a week for five months, Professors Carmalt and Russell. Lectures on *Ophthalmology*, 1 hour, Dr. St. John. *Ear and Throat Clinic*, 1 hour, Dr. Swain.

Obstetrics and Diseases of Women and Children : Lectures and Recitations, 2 hours, Professor Campbell. Dispensary Clinic, 2 hours, Dr. Osborne.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital.

CHEMISTRY—In the lectures and recitations on *General Chemistry* the students are as well grounded as is practicable on the fundamental

principles of the science, on the formulation of reactions, and the solution of problems. The properties of the elements and their chief compounds are illustrated by experiments and the use of a large collection. Much attention is devoted to the study of organic compounds; the properties and theories as to the constitution of these important bodies are illustrated by specimens and by the preparation of many of the typical compounds before the class.

Qualitative Analysis is taught so far as to require each student to be able to analyze a mixture of the salts of the common metals. Each student is furnished with a desk and all required apparatus and reagents. The course is systematic and is well adapted to cultivate habits of observation and the analytical method of thought. The elements of *Quantitative Analysis* are taught, a number of typical determinations being made by volumetric and gravimetric methods.

The course in *Medical Chemistry* consists of recitations and a practical laboratory study of the reactions of many of the proximate principles of the animal body, and the analytical methods of value in clinical and sanitary work. The study of normal urine is thorough and is supplemented by abundant practice in the chemical and microscopical examinations of pathological specimens.

ANATOMY—The course in anatomy extends through two years with examinations at the end of each year. Each student is provided with a box containing the bones of the skeleton for home study. The instruction is given by means of recitations, lectures, and laboratory work. Illustrations from comparative anatomy are employed when possible, to insure a more comprehensive knowledge of the subject. Frequent reviews are held, as it is believed that in this way a thorough and lasting knowledge is obtained. Thoroughness of detail is aimed at, but essential points are emphasized and every opportunity is taken for illustrating the application of anatomy to practical medicine. Ample material is provided for dissection and each student dissects all of the body under the immediate supervision of the instructor. Satisfactory demonstration of each part dissected is required after its completion. A brief laboratory course in the anatomy of the cat is pursued previous to the human dissections. The class-room exercises are illustrated by models, dissections, and the use of several hundred lantern slides. The written examination at the close of the first year is upon osteology, syndesmology, and myology. The instruction of the second year includes angiology, neurology, and splanchnology. Special attention is directed to the study of the brain and cerebral localizations.

Topographical and Surgical Anatomy—The advanced students receive instruction in the special surgical relationships of anatomy in a course of lectures with demonstrations on the living model and the cadaver.

Normal Histology and Embryology—The instruction in these subjects includes a careful consideration of the histological structure of the adult body compared with that of the foetus in various stages of development, together with the history of the formation and growth of the embryo as a whole. By this method the student is enabled to gain not only a thorough understanding of the structure of the various tissues and organs of the body, but also to trace their development and growth. The course of instruction consists of lectures, recitations, and laboratory work. The lectures are very fully illustrated by lantern transparencies made from photographs of typical sections and drawings. These are accompanied by recitations from a standard text-book. In the laboratory, each student is furnished with a microscope and an outfit of all reagents and apparatus required for thorough work. He receives carefully prepared sections and specimens of the tissues and organs of the body, both in the adult and embryonic condition; these are mounted for permanent preservation and from them careful drawings are made. Practical instruction is given each student in the technology of the subject.

The laboratory cabinet contains an extensive reference collection of histological specimens and serial sections of embryos; this together with the most recent instruments and publications, and an abundant supply of material, affords good facilities for advanced work.

PHYSIOLOGY—The design of the regular course of instruction in this branch may be described as essentially the impression of modern physiology on the mind of the student, following the lines and methods and according to the measure of the excellent manual of Landois and Stirling. To accomplish this purpose full experimental illustrations of the more important principles of physiological physics are given, accompanied by such demonstrations of the fundamental principles of physiology as will make a clear and lasting impression upon the mind of the student. During the first part of the year instruction is given in elementary physiology, for the special benefit of those who have had no preliminary training in biology. This elementary instruction is accompanied by work in the laboratory, in order that students may become perfectly familiar with the principles of physiology and with the apparatus, before entering upon the more advanced study. In the laboratory the students have the opportunity to serve as assistants during the demonstrations, and thus are enabled to acquire both an intimate knowledge of the subject and a manual skill which will be of service to them in their professional work. Regular recitations are held, with the three-fold design of enforcing the principles which have previously been demonstrated, of preparing students in advance for work in the the laboratory, and of holding them individually to a systematic and thorough course of study.

Care is taken to call attention to the relations of physiological facts, as they present themselves, to practical Medicine.

The physiological laboratory is well supplied with apparatus, comprising most of the instruments essential for physiological demonstrations and research. Students desirous of investigating some particular subject in experimental physiology will be taken into the laboratory without extra charge, furnished with the requisite apparatus, and directed in their work.

MATERIA MEDICA AND THERAPEUTICS—The instruction in this department is given by recitations chiefly. These are illustrated by the specimens from a large collection of the *materia medica*, though the botany, physical character, and chemical composition of drugs, receive much less attention than their physiological actions and therapeutical uses. Each student has repeated personal instruction in prescription writing, both as illustrative of the use of a given drug and in hypothetical cases of disease. In the several Dispensary clinics, also, the students are exercised in writing prescriptions by dictation.

PHARMACY—The School has a convenient and well equipped laboratory in which students are instructed by practical exercises in the preparation and compounding of drugs. The instruction is given by Messrs. Warren A. Spalding and Clarence H. Butricks.

PATHOLOGY—The instruction in pathology consists of lectures, recitations, and laboratory work in pathological histology. The laboratory is supplied with excellent microscopes which are furnished to each student, together with all necessary apparatus and reagents for the preparation, study, and preservation of microscopical specimens of morbid tissues.

Pathological anatomy is illustrated by a large collection of specimens and drawings, with which the museum is supplied, and supplemented by fresh pathological specimens. Students are also expected to attend all the autopsies made at the Morgue of the New Haven Hospital. This large and convenient morgue was constructed with special reference to rendering autopsies available for the instruction of students.

Medical Jurisprudence—Instruction in this subject is given by lectures and demonstrations.

Bacteriology—The School has a special laboratory for the study of Bacteriology, which contains a fine equipment of modern apparatus, for carrying on investigations in all lines of research regarding bacteria. There is also maintained a cabinet of cultures, both saprophytic and pathogenic.

The instruction to students includes demonstrations of the various

methods and apparatus for bacteriological research, and practical exercises in the methods which have become of value in clinical diagnosis. Graduates and those desiring to do special work will be afforded excellent opportunities for study.

MEDICINE—The method so long in vogue in medical schools of teaching this important branch solely by didactic lectures, has for a few years past been superseded by a method combining lectures and recitations in the same exercise. It is the experience of this School that the latter method has been attended with much more satisfactory results. By this mode of instruction the student is not only informed of the special subject of the day, but is required to prepare himself from a text-book. During the recitations questions upon the subjects are encouraged, and the Professor has thus the best opportunity to explain such obscure points as he may find are not fully appreciated. The intent and aim of the teaching is to give the instruction a practical direction, the teacher being constantly mindful of the real needs of the student.

Clinical Instruction is carried on at the New Haven Hospital, and at the New Haven Dispensary which is on the School grounds.

The clinical instruction in internal medicine in connection with the Dispensary comprises three clinics weekly held for the Senior and Middle classes by the Instructor in Clinical Medicine. The cases exhibited are such as may be selected from among the patients for their instructive character and cover very completely the range of diseases exhibited by walking patients. In these clinics especial attention is devoted to the demonstration of all signs and symptoms of disease, and instrumental or other means for their detection; auscultatory, palpatory, or other features which demand it, being demonstrated to the students individually in succession.

The Dispensary service in internal medicine which supplies these clinics is divided into three portions, each under the immediate supervision of a physician, assistant to the Instructor in Clinical Medicine. Each of these assistants is in attendance twice a week, and to each of them are assigned from the Senior class three clinical clerks, who are changed each month. The clinical clerks take the histories and make the preliminary examinations of patients, which are revised by the assistants who prescribe the treatment. While the clinical clerks are appointed primarily for the relief of the assistants in their examination of the patients, they find here necessary and we believe unexcelled opportunities for rendering themselves familiar with practical medical work. The urine, sputum, blood, etc., when these require investigation, are examined by the students under the direction of the instructors in chemistry and histology. Cases which need to be seen at home are put in charge of Senior students with such supervision as each case requires.

At the Hospital one medical clinic is held each week by Drs. DeForest and Fleischner. These are general medical clinics, but particular attention is given to the demonstration of the various signs of importance in *Physical Diagnosis*. Opportunity is also here provided for the study of those severer cases which the Dispensary service does not furnish, and care is taken to have the students see the same patient in various stages of his disease, and, in fatal cases, to demonstrate the lesions at the autopsy.

Mental Diseases receive special consideration in a course of didactic lectures by Dr. Stearns, and by visits to hospitals for the insane.

Dermatology is taught in a course of clinical lectures by Dr. Fleischner.

Sanitary Science and the Public Health receive attention from Professor Brewer in a course of lectures, which includes the elements of these subjects, with a discussion of methods in practice, and of public sanitary administration.

Toxicology is taught in a course of experimental lectures by Professor Smith, and as treated includes a discussion of the general subject-matter of the science, the statistics of the use of the different poisons, and an exposition of the chemistry and the medico-legal bearings of the poisons.

SURGERY—Three didactic lectures on the principles and practice of surgery are given weekly, to the Senior and Middle classes, the course running through two years. Illustrations of minor surgical practice are shown in the service of the New Haven Dispensary, by Professor Carmalt, who has charge of the surgical division. The wards of the New Haven Hospital afford opportunities for the observation and study of the more severe injuries and important surgical diseases. Professors Carmalt and Russell, who are of the visiting staff, hold weekly clinics during their terms of service, in which the advanced students are shown the cases during their whole stay in the Hospital, studying the causes which necessitate operations, where such are necessary, seeing the operations, among which are many of the most important in surgery, and observing the results of treatment.

Ophthalmology is taught in a special course of lectures by Dr. S. B. St. John, of Hartford, and illustrated by a large number of cases in the surgical clinic, particular attention being given to their elucidation.

Otology and Laryngology are taught by Dr. Swain in the Dispensary clinics. Each student is required to make examinations with instruments, and becomes familiar with their use and with the normal and principal pathological conditions of the throat and ear.

OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN—Instruction is given in obstetrics by lectures and recitations, with practical demon-

strations of the operations of midwifery. Senior students are assigned obstetrical cases under the direction of Dr. Townsend.

Gynecology is taught by lectures, recitations, and clinics. The Senior class receive instruction in the Dispensary from Dr. Osborne.

Diseases of Children—This important branch of medicine is taught by didactic lectures and recitations, as well as by clinical instruction at the Dispensary and Hospital.

THE NEW HAVEN HOSPITAL is situated but a short distance from the School building, and being the chief hospital in a large manufacturing city, which is also a considerable railroad center, its wards constantly afford ample material for the illustration of disease, and furnish frequent occasion for the performance of the various surgical operations.

The new *operating theatre* is now completed and is thoroughly equipped with every requisite and convenience for surgical work. The arrangements are planned with special reference to making the operations available for purposes of instruction to students.

Three Resident Physicians are appointed annually according to the results of an examination before the medical staff. Graduates of this School frequently obtain appointments also in the hospitals of neighboring cities.

THE NEW HAVEN DISPENSARY is located on the school grounds. Extensive changes have recently been made in the building; a substantial addition has been erected and the old building remodeled. It is now so arranged as to afford the greatest facilities for the examination and treatment of the many patients who seek aid at this charity, and to furnish the best opportunities to instruct the students, who daily participate in the work of the institution.

WRITTEN EXAMINATIONS are held at the close of each year on the studies of the year. The examinations at the end of the first year are upon General and Medical Chemistry, Histology, Anatomy, and Physiology. Those at the end of the second year are upon Advanced Physiology, Advanced Anatomy, *Materia Medica* and Therapeutics. Those at the end of the third year are upon Pathology, Surgery, Medicine, and Obstetrics, with a practical examination in Clinical Medicine.

REQUIREMENTS FOR A DEGREE

To be eligible for the degree of Doctor of Medicine, every candidate must fulfill the following conditions:

I. He must be at least twenty-one years of age, and must sustain a good reputation for moral character.

II. He must have spent three years as a student in this School, or if but one or two years in this School, he must have pursued such studies in some other recognized institution, as are considered by the Faculty to be the equivalent of the remainder of the full term of study. The last year must have been in this School.

III. He must have passed to the satisfaction of the Faculty, the prescribed examinations of the course; and he must have presented a satisfactory thesis on some subject relating to medicine. The thesis should be presented to the Dean on the third Wednesday before Commencement.

HONORS AND PRIZES

The degree of Doctor of Medicine *magna cum laude* will be conferred on students whose examinations and school work show distinguished merit.

The degree of Doctor of Medicine *cum laude* will be conferred on students whose examinations and school work show unusual merit.

THE CAMPBELL GOLD MEDAL is awarded to that member of the graduating class who secures the highest rank in the examinations of the course.

THE KEESE PRIZE—The income of the fund for the Keese Prize, a memorial of Hobart Keese, M.D., of the class of 1855, which amounts to about \$140 annually, is awarded by the Faculty to that member of the graduating class who presents the best thesis.

THE OBSTETRICAL PRIZE, consisting of a set of obstetrical instruments, is awarded to that member of the graduating class who passes the best examination in obstetrics.

Any of these prizes may be withheld at the option of the Faculty.

LIBRARY

The University Library contains about 155,000 volumes and includes the Medical Library. Medical students have the same privileges of consulting and drawing books as other students of the University.

GYMNASIUM

The privileges of the College Gymnasium can be had on payment of a small fee.

FEES AND EXPENSES

FIRST YEAR :

Matriculation (paid but once),	\$ 5.00
Tuition,	140.00
Practical Anatomy (including instruction and material),	10.00

SECOND YEAR :

Tuition,	140.00
Practical Anatomy (including instruction and material),	5.00

THIRD YEAR :

Tuition,	80.00
Graduation,	30.00

A deposit of \$5 is required in the chemical laboratory, and one of \$1 in the histological laboratory, to cover the cost of apparatus broken by the student ; at the end of the year the excess over the amount of breakage will be returned.

These fees give entrance to all the instruction of the School, including not only the lectures and quizzes, but the practical courses in analytical and physiological chemistry, urinary analysis, histology, pathology, osteology, and clinical medicine and surgery.

The tuition fee for the first and second years is due at the beginning of each of the three terms, in installments of \$50, \$50, and \$40, respectively ; for the third year the installments are \$30, \$30, and \$20.

Fees are paid to the Treasurer of the University, except the matriculation fee and the fee for graduation, which are paid to the Dean.

BOND—Students who do not pay when their bills are due are required to give a bond to the Treasurer for three hundred dollars, executed by a satisfactory bondsman ; a blank for this bond will be furnished on application to the Treasurer. Those who deposit such bonds will receive term bills, with interest added, shortly before the end of each

term, to be paid, on or before the commencement of the next succeeding term, and students who deposit bonds must pay all arrearages before they can receive back their bonds from the Treasurer. No degree can be conferred, or certificates of attendance or examination furnished, until all bills due the School are paid.

Students will be assisted in finding board and lodging by the Janitor.* Prices range from four and a half dollars a week upwards.

INSTRUCTION TO GRADUATE AND SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE IN MEDICINE

The instruction here offered to graduates in medicine is intended to meet the requirements of two classes of students: first, those who wish to review or supplement their knowledge of the regular studies of the medical curriculum, as taught in this School; and second, those who wish to fit themselves in special lines of medical work, or for the duties of a medical examiner, or for medico-legal and sanitary examinations.

Courses in the following subjects are specially mentioned: Experimental Physiology; Physiological Chemistry; Chemical Analysis, including General Qualitative Analysis and the Quantitative Methods as applied in medicine; Experimental Toxicology and Medico-Legal Examinations; Sanitary Analysis, including the Chemical and Bacteriological Examinations of Food, Air, Water, etc.; Practical Anatomy; Normal and Pathological Histology; General Bacteriology.

But any of the regular studies may be taken, and special courses to meet the requirements of the students may be arranged at hours convenient to the instructors.

Special Students are not taken in the practical branches of medicine, but the studies mentioned above and the general studies of the course are open to such persons as may

* Mr. William Blackwood, 146 York St.

desire to pursue them, if by their previous studies they are prepared to profit by the instruction.

The charges for instruction will depend on the courses taken, and can be ascertained for any particular line of study by applying to the Dean.

For further information, address Professor HERBERT E. SMITH, Dean. Office hours, from 11:30 A. M. to 12:30 P. M. on Wednesdays, at the School, 150 York St.

DEPARTMENT OF LAW

(YALE LAW SCHOOL)

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
HON. FRANCIS WAYLAND, LL.D., *Dean*
HON. WILLIAM C. ROBINSON, LL.D., *Professor of Elementary and Criminal Law and the Law of Real Property*
SIMEON E. BALDWIN, LL.D., *Professor of Constitutional and Mercantile Law, Corporations, and Wills*
WILLIAM K. TOWNSEND, D.C.L., *Edward J. Phelps Professor of Contracts, Admiralty Jurisprudence, and Torts*
THEODORE S. WOOLSEY, LL.B., M.A., *Professor of International Law*
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SPECIAL LECTURERS AND INSTRUCTORS

IN THE UNDERGRADUATE COURSE

- HON. EDWARD J. PHELPS, LL.D., *Instructor in Evidence, Equity, and International Law*
HON. DWIGHT LOOMIS, *Instructor in Bailments, Evidence, Torts, and Bills and Notes*
HON. NATHANIEL SHIPMAN, LL.D., *Lecturer on Jurisdiction of and Procedure in the United States Courts*
MARK BAILEY, M.A., *Instructor in Forensic Elocution*
HON. JOHN F. DILLON, LL.D., *William L. Storrs Lecturer on Municipal Law*
HON. WILLIAM E. SIMONDS, LL.B., M. A., *Lecturer on Patent Law*
HON. MORRIS W. SEYMOUR, LL.B., M.A., *Lecturer on Corporations*
M. DWIGHT COLLIER, M.A., *Lecturer on Attachments, Judgments, and Executions*
THOMAS THACHER, LL.B., M.A., *Lecturer on Corporate Trusts*
JAMES M. TOWNSEND, JR., LL.B., *Lecturer on Transfer of Monetary Securities*
GEORGE M. SHARP, LL.B., M.A., *Lecturer on Insurance*
C. LARUE MUNSON, LL.B., M.A., *Lecturer on the Beginnings of Practice*
GEORGE D. WATROUS, D.C.L., *Instructor in Contracts and Torts*
HOWARD H. KNAPP, LL.B., *Lecturer on Connecticut Practice*

IN THE GRADUATE COURSE

HON. EDWARD J. PHELPS, LL.D., *Instructor in Constitutional Limitations*

HON. DWIGHT LOOMIS, *Instructor in The Law of Taxation*

ALBERT S. WHEELER, M.A., *Instructor in Roman Law*

ARTHUR M. WHEELER, M.A., *Instructor in English Constitutional History*

WILLIAM G. SUMNER, LL.D., *Instructor in Political and Social Science*

ARTHUR T. HADLEY, M.A., *Instructor in Railway Management and Economics of Transportation*

ROGER FOSTER, LL.B., M.A., *Lecturer on Federal Jurisprudence*

JOHN A. ROBINSON, LL.B., M.D., *Librarian*

GEORGE W. ANDREW, LL.B., *Assistant Librarian*

JOHN A. HOOBER, LL.B., *Instructor of Quiz Clubs*

It is the aim of the School to give to all students in its regular undergraduate course a thorough acquaintance with the general principles and rules of American law, so as to fit them for the Bar of any State; to extend to those who do not propose to become practicing lawyers, but wish to pursue some particular branches of legal or political knowledge, such assistance as they may desire; and to offer to advanced students, who are able to devote to it the necessary time, instruction in all that belongs to law as a science in its widest sense. . Such instruction is now given in an undergraduate course, a graduate course, and two special courses.

The undergraduate course is mainly devoted to the practical side of legal education, but also gives some introduction to the general ideas and sources of jurisprudence. In the graduate course, the studies are so arranged that those of the first year have no necessary connection with those of the next, and can therefore be profitably pursued by themselves when the student has no time to devote to a more extended education. The first year is mainly occupied with further instruction in practical topics begun in the undergraduate course, such as Corporations, Railroad

Law, Patents, Taxation, Equity and Code Pleading, and Practice in the United States Courts. The second year is mainly devoted to studies of a more scientific and philosophical character, such as General and Comparative Jurisprudence, Legislation and Government, Roman Law, the French Codes, and Private International Law. It is believed that the studies of the undergraduate course, and those of the first year of the graduate course, cover all the topics which it is desirable for the ordinary law student to examine before admission to the Bar ; and the fourth year (in which the degree of Doctor of Civil Law is awarded) is recommended only to those who desire to fit themselves to be something more than practicing lawyers. For the special courses see page 180.

The School occupies an entire story of the Court House of New Haven County, facing the Green, on the opposite side from the College buildings. It has, upon the same floor, two lecture-rooms, a large library hall, the office of the Dean of the Faculty, and other apartments furnishing every needed convenience for quiz-clubs and debating societies. A special feature of the School is the peculiar facility which it affords its students for observing actual practice in court. This is due to the fact that in the Court House two terms of the Supreme Court of Errors of Connecticut are held annually ; and the Superior Court and Court of Common Pleas (the principal Civil and Criminal Courts of the State) are also in session almost daily, during each of the School terms.

The students are allowed the freest access to the large library of the School which is open until half-past nine in the evening, examining the books on the shelves for themselves, without the intervention of the librarian. The familiarity with the reports and authorities that is thus gained, the Faculty deem of great importance in accustoming the student to prepare his cases intelligently and thoroughly in his future practice. A debating society—the Kent Club—gives a good opportunity for practice in public

speaking, and the formation of class quiz-clubs, to meet in the Law School apartments, is also provided for. Those formed in the Junior year are under the special direction of a competent instructor. The discussion of legal topics, unreservedly and familiarly by the students among themselves, is promoted, and the fact that they generally come from a wide range of States renders such comparisons of ideas of special interest and value to all. The share of the School in the general advantages of the University gives the students many opportunities of broadening their views and acquiring knowledge in regard to matters outside of their strictly professional work. They can, on application to the Dean, obtain permission to be present at one or more of the special courses of instruction in the Department of Philosophy and the Arts, or the lectures on Medical Jurisprudence, Anatomy, Insanity, etc., in the Medical School, on payment of a moderate fee.

The College Gymnasium is open to members of the Law School on payment of moderate fees.

COURSES OF INSTRUCTION

The regular courses of instruction, including both required and elective studies, are as follows :

UNDERGRADUATE COURSE

JUNIOR YEAR :

Professor WAYLAND : Lectures—English Constitutional Law.

Judge LOOMIS : Recitations—Bailments, Evidence.

Professor PHELPS : International Law.

Professor ROBINSON : Recitations—Elementary Law, Pleading, and Evidence.

Professor BALDWIN : Recitations—Mercantile Law. Lectures—Nature and History of American Law, Wills or Roman Law.

Professor TOWNSEND : Recitations—Contracts.

Mr. WATROUS : Contracts and Torts.

Mr. BAILEY : Lectures—Forensic Elocution.

SENIOR YEAR :

Judge LOOMIS : Recitations—Evidence.

Professor PHELPS : Recitations—Equity.

Professor ROBINSON: Recitations—Real Property, Domestic Relations. Lectures—Estates, Conveyancing, Forensic Oratory, Criminal Law.

Professor BALDWIN: Recitations—Mercantile Law, Corporations. Lectures—American Constitutional Law, Public Corporations, Wills or Roman Law, Practice.

Professor TOWNSEND: Recitations—Contracts and Torts.

Professor WOOLSEY: Lectures—International Law.

Mr. SEYMOUR: Lectures—Private Corporations.

Mr. SIMONDS: Lectures—Patents.

Mr. COLLIER: Lectures—Attachments, Judgments, and Executions.

Mr. THACHER: Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND: Lectures—Transfer of Monetary Securities.

Mr. SHARP: Lectures—Insurance.

Mr. MUNSON: Lectures—The Beginnings of Practice.

GRADUATE COURSE

FIRST YEAR:

Professor ROBINSON: Recitations—Patents.

Judge LOOMIS: Recitations—Taxation.

Professor BALDWIN: Recitations—Railroad Law, Practice in U. S. Courts.

Professor TOWNSEND: Recitations—Admiralty Law, Sales.

Mr. RUSSELL: Recitations—Municipal Corporations, Statute Law.

Mr. FOSTER: Lectures—Federal Jurisprudence.

Professor WOOLSEY: Lectures—International Law.

Professor PHELPS: Recitations—Mortgages.

Professor SUMNER: Lectures—Political History and Science.

Professor A. M. WHEELER: Lectures—English Constitutional History.

Professor HADLEY: Lectures—Railway Management.

SECOND YEAR:

Professor ROBINSON: Recitations—Early History of Real Property. Lectures—Canon Law.

Professor BALDWIN: Recitations—Comparative Jurisprudence, Code Napoléon.

Professor WHEELER: Lectures—English Constitutional Law.

Professor SUMNER: Lectures—Political and Social Science.

Mr. A. S. WHEELER: Recitations—Roman Law.

Professor HADLEY: Lectures—Economics of Transportation.

Professor FARNAM: Lectures—Public Finance.

The method of instruction, as will be seen by the foregoing schedule, is mainly that of recitations. It is the conviction of the Faculty of this Department, as well as the tradition of the University, that definite and permanent impressions concerning the principles and rules of any abstract science are best acquired by the study of standard text-books in private, followed by the examinations and explanation of the recitation room. Hence, although certain subjects are separately taught by lectures, either because the want of proper manuals, or the constant and rapid advance of learning, or economy of time, requires the adoption of that method, care is taken that the same topics shall be covered by recitation work in connection with the wider branches of the law to which they belong. Reported cases of special importance as illustrating the development of law into leading branches are also referred to, and many of these are separately printed and distributed for more ready consultation. The recitation-hours, however, are not devoted entirely to the questioning of the student. While this is done with sufficient thoroughness to hold him up to his work of preparation, ample opportunity is afforded for a free colloquial discussion of the subject of the lesson and for the presentation and solution of the difficulties which he may have encountered in his private study. In this manner each student is brought into personal communication with the instructor in reference to his daily work, and as far as practicable, receives the benefits which would be obtained if he were placed under the individual tutorship of his professor.

The several courses of study to which the attention of the student is directed in his undergraduate career are intended to familiarize him with all the branches of the law, which ordinarily become useful to the practitioner in the earlier years of his professional life. The course, embracing American Law, English and American Constitutional Law, and Elementary Law, is pursued under the guidance of four different professors. In this course, the fundamental conceptions which underlie all systems of jurisprudence are brought to the notice of the student and fully defined and explained; the peculiar doctrines which characterize our American Law are pointed out; the principles of constitutional government, and the special features it exhibits both in this country and in England, are discussed; and the entire body of the common law in its four great divisions, is reduced to distinct propositions and illustrated by numerous collateral readings. This course alone covers the ground usually traversed by the student in an office prior to his admission to the Bar.

The course in Real Property includes recitations in a standard work of a general character, and, subsequently, in text-books upon special subjects such as the Law of Mortgages, the Law of Landlord and Tenant, etc. Collateral to this course are two others: one, a series of lec-

tures on Estates, in which the law and practice in Guardianships of Infants and Incapables, and the Administration of Decedents' Estates, are considered ; the other, a course of practical instruction in Conveyancing, in which the students are exercised in drawing all the instruments commonly employed in the transaction of business concerning real property.

The course on Contracts is the most extended, as it is the most important, in the School. It occupies a great part of the time of two of the professors. It continues during both the Junior and Senior years, and embraces, among other important topics, those of Agency, Bailments, Bankruptcy and Insolvency, Bills and Notes, Consideration and Assent, Contract Liabilities of Infants and Married Women, Liens, Marine, Fire, and Life Insurance, Partnership, Sales, Shipping Sureties, Trademarks, and Telegraphs. Collateral to this course are five others: one on Wills, in which the law of testamentary dispositions and executorship is examined ; another on Patents, in which the nature of patentable inventions, the mode of using letters patent, and the remedies for infringement are considered ; a third on Corporations in general, treating the law governing the organization, privileges, duties, and liabilities of all incorporated bodies ; the fourth and fifth on Private and Public Corporations respectively, in which the practical arrangement of each class is illustrated and explained. The last four are begun in the undergraduate course and completed in the first year of the graduate course.

The course on Torts, consists of recitations on that subject, from recent and approved text-books, with a running commentary, by the instructor, explaining and applying the principles contained in the lesson.

The course on Equity embraces the whole body of Equity Jurisprudence, and is taught by recitations from the text-book, with occasional lectures on the obscurer topics. Collateral to this course is a series of lectures on Equity Pleading, discussing the principles and practice by which equitable remedies are governed and applied.

The course on Criminal Law extends through part of the Senior year, and embraces the topics of Procedure and Evidence as well as the substantive law of Crimes. Current cases of note, arising in any part of the country, are made subjects of discussion in connection with the rules of law by which they are to be decided.

The course on Pleading embraces the subjects of Common Law Pleading and Code Pleading, both taught by recitations and examples ; while the details of the latter are enforced by requiring the students to draw complaints, answers, etc., in cases of their own selection, and to submit them to the instructor for criticism and correction.

The course on Evidence covers both its general rules, and those applicable to each form of action ; recitations being supplemented by

lectures amplifying and explaining in the light of modern cases the principles involved in the various topics. Collateral to this and the foregoing course are four others: one on Forensic Oratory, consisting of a series of lectures, in which the preparation and conduct of a suit, in all its different stages, are explained; the second, on Forensic Elocution, in which practical instruction is given in the art of public and forensic speaking; the third on Process, including the subjects of Attachments, Garnishment, and Execution; and the fourth on Practice, a series on familiar lectures on the methods of transacting general legal business.

The course on International Law occupies portions of both undergraduate years. In the Junior year, the work consists of lectures covering the general field occupied by Woolsey and Pomeroy. In the Senior year, instruction is given by lectures on particular topics, especially on questions which are, for the time being, exciting public attention, and which demand the application of the principles examined in the previous year.

The course on Roman Law is intended as an introduction to the more advanced studies of the graduate years, and, though necessarily brief, is sufficient to indicate the distinguishing features and doctrines of the civil law, and to refer to the original sources for more detailed information.

The studies of the first graduate year have been selected with a view of preparing the intended practitioner for the higher walks of professional life. The subjects are of universal interest, the law which governs them is substantially the same in all parts of the country, they involve the most extensive financial enterprises of the age, and on these accounts form the most important practical topics at present embraced within our law. Particular attention to them has, therefore, been deemed an essential requisite to a finished legal education, and the devotion to them of an additional year, on the part of students and instructors, has been thought a wise, if not a necessary measure. The various courses are critically taught both by text-book and by lecture, and each student receives all the assistance he may desire in his personal examination of cases and authorities. Special attention is paid to the methods of practice and pleading in the United States Courts, both in Common Law, Equity, and Admiralty cases, and instruction is therefore given on these subjects by three of the Faculty. The students are required to draft pleadings, and in matters of special difficulty, such as the conduct of proceedings *in rem* in Admiralty, these pleadings are carried on through all the usual steps, and the issues made up are argued before the Professor. The value of this year of special work to the earnest and intelligent graduate cannot be overestimated.

The courses of instruction in the second graduate year are designed to afford to the advanced student an opportunity to round out his legal

acquirements with a knowledge of the more profound and philosophical principles of human law. The primary conceptions to which he was introduced at the commencement of his studies are again taken up and developed in a scientific method, and examined in the light of various systems of practical Jurisprudence now or heretofore prevailing. In view of the limited time which can ordinarily be devoted by young men to these pursuits, the courses have been so arranged as to present these fundamental ideas as clearly and in as many applications as is possible, leaving it to future private study to enlarge the outline and complete the details of the work.

The course on General Jurisprudence consists of lectures and recitations from such works as Austin on Jurisprudence, Holmes on the Common Law, etc., and the students are required to write theses on the various topics. Charitable Trusts are examined with reference both to their creation and to their proper administration. The course on Roman Law comprises the careful study of the Institutes of Justinian, in connection with institutional works of modern authors, and the perusal of selected titles from the Digest, accompanied by oral explanation. Particular attention is devoted to this course of study, and every effort is put forth to make the students familiar with the doctrines of the civil law, as well as with the technical language in which these have been expressed. The course on Comparative Jurisprudence includes among its chief branches a careful study of the French Codes, compared with other systems of Jurisprudence, particularly the Roman, English, and American, and recitations upon private international and inter-state law, with the investigation of leading cases on the subjects, decided in the French and American Courts. The course on Canon Law consists of a series of lectures on the history, development, and fundamental theories of the Canon Law, with select readings from the *Corpus Juris Canonici*, and from French and English treatises upon the subject. The course on Political and Social Science is one of the principal courses in the Philosophical Department of the University, and is attended by the graduate students of the Law School in common with the members of that Department. The course on the Economics of Transportation is a continuation of the series of Lectures on Railway Management given in the first graduate year, extending the view of the student from the single subject of railways to all the instrumentalities of commerce.

In addition to the regular course of instruction, two Special Courses are provided; one for those who desire some acquaintance with law as a preparation for business life; the other for persons not intending any active business or professional career, but desiring to acquire an en-

larged acquaintance with our political and legal systems and the rules by which they are governed. The first of these special courses covers a single year; the second comprises two years. The studies of the first course may be arranged as follows, but the selection can be varied (if desired) on consultation with the Dean of the Faculty:

FIRST SPECIAL COURSE—ONE YEAR

Professor ROBINSON: Recitations—Elementary Law. Lectures—Estates.

Judge LOOMIS: Recitations—Bailments.

Professor BALDWIN: Recitations—Agency, Partnership, Corporations, Bills and Notes, Bankruptcy and Insolvency. Lectures—American Law, American Constitutional Law.

Mr. WATROUS: Recitations—Torts.

Professor TOWNSEND: Recitations—Marriage, and Husband and Wife, Sales, Shipping, Insurance, Securities, Bailments, Telegraphs, Trademarks, Liens.

Professor PHELPS: Lectures—International Law.

Professor HADLEY: Lectures—Industrial Legislation.

Mr. BAILEY: Lectures—Elocution.

Mr. COLLIER: Lectures—Attachments, Judgments, and Executions.

Mr. THACHER: Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND: Lectures—Transfer of Monetary Securities.

SECOND SPECIAL COURSE—TWO YEARS

FIRST YEAR

Professor ROBINSON: Recitations—Elementary Law. Lectures—Estates.

Judge LOOMIS: Recitations—Bailments.

Professor BALDWIN: Recitations—Bankruptcy and Insolvency. Lectures—American Law, American Constitutional Law, and Wills or Roman Law.

Professor TOWNSEND: Recitations—Sales, Insurance.

Professor PHELPS: Lectures—International Law.

Professor SUMNER: Lectures—Political and Social Science.

Professor FARNAM: Lectures—Public Finance.

Professor HADLEY: Lectures—Industrial Legislation.

Mr. BAILEY: Elocution.

Mr. SEYMOUR: Lectures—Private Corporations.

Mr. WHITE: Lectures—Local Government in the United States.

Mr. SHARP: Lectures—Insurance.

SECOND YEAR

Judge LOOMIS : Lectures—Taxation.

Professor BALDWIN : Recitations—Private International Law.

Mr. RUSSELL : Recitations — Municipal Corporations, General or Comparative Jurisprudence.

Professor WOOLSEY : Lectures—International Law.

Professor SUMNER : Lectures—Political and Social Science.

Mr. A. S. WHEELER : Recitations—Roman Law.

Mr. THACHER : Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND : Lectures—Transfer of Monetary Securities.

In the latter course the students may, at their option, defer some of the studies of the first year until the second, and when desired, other branches taught in the Law School may be pursued, instead of certain of those here mentioned, at the discretion of the Faculty. Some or all of the studies of this course may be taken by those who, having received a bachelor's degree implying a course of undergraduate study equivalent to that pursued in the Academical Department, are completing their education with a view of applying for the degree of Doctor of Philosophy. Those who take the full course may apply for the degree of Bachelor of Civil Law (B.C.L.)

Besides these various exercises, the undergraduate students are required, from time to time, to draft contracts, wills, and other similar instruments, the work of each being reviewed and commented upon, either in public or in private, by the instructor. Public Moot Courts, besides those of the class quiz-clubs, are regularly held, at which one of the professors presides as judge, and the students acting as counsel, in the argument of cases, are required to draw the necessary pleadings, according to the common law or equity forms, as the case may be. Occasionally also, cases are tried by the students before a jury of their own number, in a court regularly organized, with a full complement of judicial, clerical, and executive officers, where the proceedings are conducted in the same manner as in ordinary courts of law.

TERMS AND VACATIONS.

They are three terms in each year : the Fall Term, beginning thirteen weeks from the day after Commencement,

and continuing to the Thursday before Christmas; the Winter Term, beginning in January, after a vacation of three weeks, and lasting eleven weeks; and the Spring Term, beginning after a vacation of two weeks, and continuing until Commencement.

REQUIREMENTS FOR ADMISSION

UNDERGRADUATE COURSE

Applicants for admission to the Junior Class must be at least eighteen years of age, and must produce certificates of good moral character. Students who have not received a liberal education at some collegiate institution will not be admitted as candidates for the degree of LL.B., until they have passed satisfactory examinations on the outlines of the History of England (Green's History of the English People is recommended) and of the United States, and on the text of the Constitution of the United States. Those, however, will be excused from this examination who present a certificate that they have passed a "Regents' Examination for Law Students," conducted under the authority of the Board of Regents of the University of the State of New York.

To entitle a person to admission to advanced standing as a member of the Senior Class, he must be at least nineteen years of age; must, if a college graduate, have studied law under a competent instructor, or at the Law School of some College or University, for at least one year; must, if not a College graduate, have studied law under a competent instructor for at least two years, or at a Law School for at least one year; and must pass such examinations as are required for those entering the Senior Class in the regular course, at which it will be sufficient if he is prepared to be questioned on Parsons on Contracts (excepting only from vol. ii, pages 257 to 488, and from vol. iii, pages 350 to 423 and 525 to 557); Blackstone's Commentaries (except Book 4), Robinson's Elementary Law, Gould on Pleading, Townsend's Notes on Code Pleading, Greenleaf on Evidence,

vol. i, Cooley on Torts, and the elementary principles of testamentary law, as given in such works as Hawkins on the Construction of Wills. Those not College graduates must also pass the preliminary English entrance examination, or produce a "Law Student's Certificate," from the Regents of the University of the State of New York. Attorneys at Law, however, of any State are entitled to admission to the Senior Class, without examination, on the exhibition of their certificates of admission to the bar; and special students, not candidates for a degree, will be admitted to any of the exercises of the School without examination.

GRADUATE COURSE

The first year of the graduate course is open, without examination, to graduates from any Law School, having the degree of LL.B.

The last year is open only to those who have received the degree of Master of Laws (M.L.), at this school or some other having an undergraduate course of a similar character. A preliminary examination upon the outlines of Roman Law and Roman History must also be passed, by all who have not taken their Bachelor's degree at some Law School where Roman Law is a prescribed study. The degree of Doctor of Civil Law (D.C.L.) may be applied for at the end of this year, by those who have been graduated at some collegiate institution, as Bachelor of Arts, Philology, or Philosophy; or who are graduates of this Law School, and have attained a prescribed standard of scholarship on their examinations for the degrees of LL.B. and M.L. A good knowledge of either the French or German language, as well as of Latin, is also required. The Faculty will present no one for the degree of D.C.L. who has not attained a high standard of proficiency in the studies pursued.

EXAMINATIONS

There will be an examination of candidates for admission to the Junior Class immediately after the opening of the

Fall Term. Candidates for admission to the Senior Class are examined at the end of the Spring Term, or beginning of the Fall Term. Seniors are examined for a degree, only at the close of the Spring Term. In the undergraduate course there are certain studies upon which all students are examined at the close of the year, and others upon which only those who desire, are examined. The award of "honors" is confined to those who pass both examinations. Examinations for degrees in each course are held at the close of the Spring Term. Every candidate for a degree, both in the undergraduate and graduate courses, must also submit a written thesis on a given legal topic, which must be approved by the Faculty.

LIBRARY, PRIZES, ETC.

The special Library of the Department, which has a permanent endowment for its support (the English Fund, established by the Hon. James E. English, M. A., in 1873), contains about nine thousand volumes, and is open daily during term time. It embraces all the reports of Great Britain and America, with an extensive collection of textbooks, and the leading legal periodicals. The students can also draw books from the general University libraries, containing over 175,000 volumes.

The following prizes are open to competition :

The TOWNSEND PRIZE (established by the Hon. James M. Townsend, in 1874), of \$100, to that member of the Senior Class who shall write and pronounce the best oration at the public anniversary exercises on graduation.

The JEWELL PRIZE (established by the Hon. Marshall Jewell, M. A., in 1871), of \$50, to that member of the Senior Class who receives the highest marks at the final examination of his class, at their graduation.

The BETTS PRIZE (established by Frederic H. Betts, M.A., in 1875), of \$50, to that member of the Junior Class who receives the highest marks at his annual examination.

The O. S. SEYMOUR PRIZE (established by the family of the late Hon. Origen S. Seymour, LL.D., in 1885), of \$60, to that member of the graduating class who, in the opinion of the Faculty, has made the greatest improvement in scholarship during both years of his course.

The MUNSON PRIZE (established by C. LaRue Munson, LL.B., in 1890), of \$50, for the best graduating thesis.

One Prize of \$30, and one Prize of \$20, to those two members of the Yale Kent Club, who, at a public competitive debate, are pronounced first and second in excellence as debaters.

DEGREES

In the undergraduate course the degree of Bachelor of Laws is conferred by the Corporation upon the recommendation of the Faculty of the Department, based on a satisfactory "pass" examination and the submission of a satisfactory thesis, on the following persons :

1st. Attorneys at Law, who have been members of the Department for one year after their admission to the Bar.

2d. Any students who have been members of the Department for not less than two years, and who passed satisfactorily the Junior "pass" examination at the end of their first year.

3d. Students who have been admitted to advanced standing as members of the Senior Class, and have remained in that Class for not less than one year.

The degree of Bachelor of Civil Law (B.C.L.) will be conferred, after a satisfactory examination and submission of a satisfactory thesis, on those who complete the second special course of two years. In the graduate course the degree of Master of Laws (M.L.) and Doctor of Civil Law (D.C.L.) are conferred under the conditions before specified.

Degrees are awarded, in cases of students of unusual merit, *cum laude*, *magna cum laude*, or *summa cum laude*.

EXPENSES

The fees for tuition and use of the Law library in the undergraduate and first special courses are \$45 for the Fall Term, \$35 for the Winter Term, and \$35 for the Spring Term, or \$100 for the entire year ; and in the graduate and second special courses, for the first year, \$50 for the Fall Term, \$40 for the Winter Term, and \$40 for the Spring Term, or \$125 for the whole year ; and for the second year, \$80 for the Fall Term, \$70 for the Winter Term, and \$70 for the Spring Term, or \$200 for the whole year ; to be paid to the Treasurer of the University in advance, or secured by a bond with surety to his satisfaction. Where payment is not made in advance, interest will be added. All members of the Law Department are required to pay, in advance, an annual assessment of \$5 for the use of the University Library. The fee for graduation is \$5. The tuition charges for special students vary in proportion to the amount of instruction and supervision required. Board and lodgings can be obtained at prices ranging from \$5 a week upwards.

For further particulars, inquiries may be addressed to Professor Francis Wayland, Dean of the Faculty.

LIBRARIES

ADDISON VANNAME, M.A., *Librarian*

FRANKLIN B. DEXTER, M.A., *Assistant Librarian*

J. SUMNER SMITH, B.A., *Librarian of the Linonian and Brothers Library*

ANNIE E. HUTCHINS, *Assistant*

HENRY R. GRUENER, *Assistant*

The Standing Committee in charge of the Library, appointed by the Corporation, consists of the following :— President DWIGHT, Ex-President PORTER, Professors SALISBURY, DAY, FISHER, NEWTON, and LOUNSBURY, and the Librarian.

The whole number of volumes in the several libraries of the University is over 200,000.

The UNIVERSITY LIBRARY contains about 155,000 volumes and many thousands of unbound pamphlets. For some years past the average annual increase has been 5,000 volumes. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number, the foreign serials alone being not less than five hundred. While designed especially for the use of the officers, resident graduates, and students of the several Departments of the University, other persons may have the privilege of consulting and, by permission of the Library Committee, of drawing books. The Library is open daily, except Sundays, in term-time, from 9:30 A. M. to 5 P. M. In the Winter vacation it is open during the morning hours, and in the Summer vacation on Monday, Wednesday, and Saturday mornings.

The occupation of the new library building, erected by the munificence of the late Hon. Simeon B. Chittenden, of Brooklyn, N. Y., began in 1890.

The LINONIAN AND BROTHERS LIBRARY, occupying the south wing of the old Library building, contains about 31,000 volumes, to which additions of not far from one thousand volumes, chiefly of the best current literature, are annually made. It is designed primarily for the use of the students, and is open in term-time, daily, except Sundays, from 9:30 A. M. to 12 M., and from 1:30 to 4 P. M. In vacation it is open on Wednesdays and Saturdays from 10 A. M. to 12 M.

In addition to the periodicals received at the University Library there will be found in the Reading Room (in the north wing of the Library) forty-seven daily newspapers, American and foreign, fifty weeklies, and seventy periodicals. This is open daily in term-time from 9:30 A. M. to 8 P. M. (on Sundays from 1 to 8 P. M.)

In Dwight Hall, which is open daily from 7:45 A. M. to 9 P. M., will also be found forty-five newspapers and periodicals, mostly religious, and a library of nearly 1,000 volumes selected mainly with reference to the study of the Bible.

The LAW LIBRARY, containing about 9,000 volumes, among which are included complete sets of the English, American, Irish, and Canadian Reports, occupies rooms adjoining those of the Law School in the County Court House. It is open daily in term-time from 8:30 A. M. to 12:45 P. M., and from 2 to 5:30 P. M. (except Saturday afternoon); in vacation from 9 A. M.

The SHEFFIELD SCIENTIFIC SCHOOL LIBRARY, in Sheffield Hall, is a valuable collection of 6,000 volumes, chiefly mathematical.

The TROWBRIDGE REFERENCE LIBRARY of the Divinity School, in Bacon Memorial Hall, contains over 3,000 volumes of standard and recent theological literature. It is open in term-time throughout the afternoon.

The LOWELL MASON LIBRARY OF CHURCH MUSIC, in West Divinity Hall, is accessible to those interested in the study of this subject. It embraces about 8,000 titles in 4,000 volumes.

The Art School has a Library of about 500 volumes.

The Library of the Medical School is incorporated in the University Library.

The Library of the American Oriental Society, consisting of about four thousand books and manuscripts, is deposited in the University Library building.

PEABODY MUSEUM OF NATURAL HISTORY

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In 1866, George Peabody, of London, but of Massachusetts birth, entrusted to a board of Trustees, selected by him, the sum of \$150,000, "to found and maintain a Museum of Natural History, especially in the departments of Zoology, Geology, and Mineralogy, in connection with Yale College." Of this sum \$100,000 was devoted by Mr. Peabody to the erection, "on land to be given for that purpose by the President and Fellows of Yale College, of a fire-proof building," "planned with special reference to its subsequent enlargement," to be, "when completed, the property of Yale College." Of the remainder of the gift, \$20,000 was set apart to "accumulate as a building fund," and \$30,000 to meet by its income from investment the expenses attending "the care of the museum, the increase of its collections, and the general interests of the departments of science before named."

Ten years later, in 1876, the first wing of the Museum—the part now standing—was completed and furnished with

cases at a cost of \$175,000, the whole outlay being met by the accumulated building fund. The central part of the projected structure and the South wing—which will extend it to Library street—remain to be built whenever the means available for the purpose shall be adequate. The central part is much needed, as only a small part of the specimens secured can now be placed on exhibition in the first wing.

The first floor of the building is devoted to the department of Mineralogy and to the purposes of a large lecture room. The minerals occupy cases in the west room, the door of which fronts the entrance to the Museum. The minerals of the Gibbs collection, deposited by Col. George Gibbs with the College in 1809-10, and purchased in 1825 at a cost of \$20,000, and the extensive accumulations since made, are here preserved and for the most part on exhibition, making it one of the largest public collections in the country. The private cabinet of Professor Brush, arranged in drawers in his private room on the same story, although not open to general exhibition, adds greatly to the means of study and investigation in this department. Besides minerals, the exhibition room contains one of the largest collections of meteorites in the country; among the specimens, there are the famous mass of meteoric iron from Texas, weighing 1635 pounds; some hundreds of meteorites, large and small, all of which came from a single fall in Iowa, in May, 1879; the interesting Weston meteorite, which fell at Weston, Connecticut, in 1807, and was soon after described at length by Professors Silliman and Kingsley; besides many others of special interest. An important recent (1891) addition is a collection of meteorites numbering nearly one thousand which came from the great meteoric fall of May 2, 1890, in Winnebago County, Iowa. A case in the center of the room contains the large and beautiful collection of Chinese artistic work in stone, chiefly in jade and agate, with other like objects, bequeathed by Dr. S. Wells Williams, who was for forty-three years in China as Christian philanthropist, editor, author, and at-

taché to the American legation, and for some years before his decease was the Professor of Chinese in the University. The large room on the same story adjoining the Mineral room, on the north side of the hall, is arranged for mineralogical and blowpipe instruction, with desks and a students' cabinet of minerals, and is under the charge of Assistant Professor Penfield.

The second floor is given up to Geology and Paleontology. The southern room contains vertebrate fossils. The latter are mostly collections made by Professor Marsh, in the Rocky-Mountain region and other parts of the West. In this room the first horizontal case to the left of the entrance contains specimens of *toothed* birds, mainly *Hesperornis* and *Ichthyornis*, discovered by Professor Marsh in the Cretaceous rocks of Kansas. Near by, in the first vertical case against the wall, are the bones of a large Mastodon from the Post-Pliocene of southern New York. In the second wall-case on the east side are the huge bones of the Miocene *Brontotheridae* from Dakota and Nebraska. In the two wall-cases at the southeastern corner are remains of the *Dinocerata*, large horned mammals from the Eocene of Wyoming. In the horizontal case adjoining may be seen two skeletons of gigantic Moas (*Dinornis*), extinct birds from New Zealand. In the center of the room are part of the bones of an enormous Dinosaur (*Brontosaurus*) sixty feet in length, from the Jurassic of Wyoming, and a large slab, standing vertically, showing the skeleton of a Mosasaur from the Chalk of Kansas. Behind this is a case containing the nearly complete skull of *Triceratops*, a gigantic Dinosaur from the Cretaceous of Wyoming. The horizontal case to the right of the entrance and the wall-case adjoining it on the west contain the remains of another Jurassic Dinosaur (*Stegosaurus*) about thirty feet long, which, as the specimens show, had a series of very large vertical plates along the back, and two or more pairs of immense spines on the tail. In the lower part of the next vertical case lies part of a thigh bone of *Atlantosaurus*, the largest of Dinosaurs

and of land animals yet known. A horizontal case on the south side of the room, contains the feet of various animals, and among them the bones of the feet of three-toed and four-toed horses from the Tertiary of Nebraska and Wyoming. In the wall-case south of this are remains of the extinct Irish Elk, and over the case is the skull with the large antlers complete. At the southwestern corner of the room, the wall-cases contain the bones of *Morosaurus*, another Jurassic Dinosaur. In the adjoining horizontal case is a series of Eocene fishes from Utah.

The western exhibition room is occupied mainly by a collection of invertebrate fossils, arranged zoologically. The first vertical case on the south is devoted chiefly to fossil sponges, among which the series of *Brachiospongidae* is the most notable. Then follow two cases of corals, with many fine examples from Kentucky, Ohio, and New York. The nine succeeding cases contain collections of crinoids, trilobites, crustacea, bryozoa, and fossil shells. The two wall-cases on the eastern side of the room exhibit slabs of crinoids from Indiana, and a number of large American ammonites. One table-case contains a series illustrative of Dana's Manual of Geology, and a second is largely devoted to recent brachiopods.

The collections of invertebrate fossils are especially in charge of Dr. C. E. Beecher.

Of the large collection of foot-prints belonging to the University, only a few fine slabs are on exhibition, part of them in each of the two exhibition-rooms of the second story. One of the most interesting is a slab about twelve feet long, covered throughout with raindrop impressions, and, besides these, two series of foot-prints of biped reptiles, one line of them extending the whole length of the slab.

The third story is occupied with the zoological collections so far as there is room for their exhibition. The general zoological collection occupies the western room; and nearly the whole has been accumulated since Professor

Verrill took charge of the department. The specimens are well arranged for exhibition and all labelled. Facing the south door stands a vertical case devoted to the Sponges, among which are many species of the siliceous or glass sponges (*Euplectella*, etc.). Beyond the sponges, twelve cases are filled with the collection of corals, which is one of the most extensive in the country. These are followed by the Echinoderms, etc. Several cases are devoted to a collection of the marine invertebrates of New England, which is nearly complete. Other cases contain special collections of the shells and corals of the Pacific Coast of America; of the corals of Bermuda; of the shells of Florida, etc. The collections are rich in species from the deep-sea dredgings in the Atlantic, but only a small part are on exhibition. Overhead are models, of natural size, of two of the huge Cephalopods of the world: one an Octopus from California, 28 feet in diameter (between the tips of opposite arms), and the other, nearer the door, a species of the Newfoundland seas, related to the Squids, having enormous eyes, and a length from the posterior extremity to the tips of the longer arms, of 42 feet. The models were made for the zoological department by Mr. J. H. Emerton.

The southern exhibition-room of the zoological story contains a collection of skeletons in cases on its east and south sides, commencing near the door. These are deposited by Professor Marsh. The skeletons of mammals, beginning with man and the apes, occupy all the east side; and then comes the birds, reptiles, and fishes. The rest of the cases are occupied with collections of vertebrates, both mounted and alcoholic, and include a nearly complete series of the species inhabiting New England.

The second and third stories have also large laboratories and workrooms, devoted to the department represented in the exhibition-rooms of the story. Those of the second or geological story are in charge of Professor Marsh; and those of the third or zoological story, besides serving for

workrooms, are for the laboratory exercises and instruction of students in General Zoology under Professor Verrill. These rooms contain also large collections of specimens arranged in drawers and trays, which are open to special students in the department.

In the fourth story there is a large Archaeological collection. As the funds of the Museum are restricted to the departments of Mineralogy, Geology, and Zoology, the cases of the old Yale Museum were fitted up for this collection.

The basement is devoted to workrooms and storerooms, and contains a vast amount of specimens, in the departments especially of Palaeontology and Zoology. This part of the building is closed to visitors.

The exhibition-rooms of the Museum are open between 9 A. M. and 6 P. M., except in the winter, when the hours are from 9 A. M. to 5 P. M. The janitor of the building is Mr. J. Rice, 92 High street.

THE OBSERVATORY

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ROBERT BROWN, M.A., *Secretary*

WILLIAM L. ELKIN, PH.D., *Astronomer*

FREDERICK L. CHASE, B.A., *Assistant*

THE OBSERVATORY has been built from the avails of the gift of the late Hon. Oliver F. Winchester, of New Haven, on land given by the late Mrs. Cornelia L. Hillhouse and her daughters. The principal astronomical instruments now in use are a six-inch Heliometer constructed by Messrs. Repsold, of Hamburg, and an eight-inch Equatorial by Messrs. Grubb, of Dublin, given by Mr. Edward M. Reed, of New Haven.

Besides its ordinary astronomical work, the Observatory maintains two public services. Continuous time-signals are transmitted from the distributing clock at the Observatory to the railroads and other parties. The Observatory offers facilities also to persons interested in accurate Thermometry for the comparison of thermometers with standard instruments.

For the proper performance of these services the following equipment is in use :

1. Standard clocks, a transit instrument, chronographs, and the accessories for refined accuracy in the determination and transmission of time.

2. Apparatus for research and comparison in Thermometry, including a collection of the best thermometers obtainable of the foreign makers and observatories which devote special attention to thermometric standards.

Descriptive circulars of the Thermometric service may be obtained by addressing the Observatory.

By the will of Professor Elias Loomis, who died in August, 1889, the Observatory receives one-third of the income, and will ultimately receive the entire income, of a fund established by him and called *the Loomis Fund*. The income received is to be applied to all, or one, or more, of the following objects only, namely, the payment of the salaries of observers whose time is exclusively devoted to the making of observations for the promotion of the science of Astronomy, or to the reduction of astronomical observations and their discussion in papers prepared for publication, or to defraying the expenses of publishing these observations and of publishing investigations based upon astronomical observations. The principal of the Loomis Fund is about three hundred thousand dollars.

UNIVERSITY PRIZES

The JOHN A. PORTER PRIZE, of the value of two hundred and fifty dollars, established by the Kingsley Trust Association in 1872, is offered for the best English Essay on a prescribed subject. Competing essays must be handed in after the close of the Spring Recess, and the award will be announced on Commencement Day. Any person who has been pursuing a regular course for a degree in any Department during the whole of the current College year, may compete for this prize. If none of the competing essays is of sufficient merit, the prize will not be awarded.

The subjects for Essays in 1892 are as follows:—

1. The Reaction of Russian Literature upon Western Europe and America.
2. The Scientific Age as reflected in the Poetry of this Century.
3. The Value of Contemporary Literary Estimates,—an Historical Study.
4. Prohibitory Laws.
5. The Growth of American Political Principles and Institutions as shown in Modifications of State Constitutions since 1789.
6. The Effects of Recent Development in Africa and South America on European Politics and Finance.
7. The Right of Property (History, Forms, and Doctrines in Regard to).
8. Religious Consequences of the Roman Conquest of Judaea.
9. The Assumptions of Modern Physical Science critically examined.
10. John Wesley and Ignatius Loyola as Religious Leaders,—a Comparison.
11. George Canning.
12. Alexander I, of Russia.

The essays, which should be signed by an assumed name and accompanied by a sealed envelope containing the writer's full name, will be due on May 1, at the office of the editor of the *New Englander*, No. 105 Grove street, New Haven.

The COBDEN CLUB SILVER MEDAL is awarded annually to that undergraduate of either the Academical or the Scientific Department who shows the greatest proficiency in the elements of Political Economy.

LISTS OF STUDENTS

DEPARTMENT OF PHILOSOPHY AND THE ARTS

COURSES OF GRADUATE INSTRUCTION

Arthur Bronson Adams, PH.B. } Yale University 1885	<i>New Haven, Conn.</i> 120 St. John st.
Arthur Chambers Alexander, PH.B. } Yale University 1889	<i>Honolulu, H. I.</i> 145 College st.
George L. Amerman, B.A. } Yale University 1890	<i>New Haven, Conn.</i> 137 Wall st.
Frederic Elijah Beach, PH.B. } Yale University 1883	<i>New Haven, Conn.</i> 44 Lyon st.
Gerald Hamilton Beard, B.A. } Yale University 1887	<i>Chicago, Ill.</i> 415 George st.
Lars Herman Beck, B.A. } Augustana College 1885	<i>Naugatuck, Conn.</i> 109 Elm st.
Charles Bemis Bliss, B.A. } Yale University 1890	<i>Lebanon, Conn.</i> 22 Whalley av.
Carl August Blomgren, B.A. } Augustana College 1885	<i>Bridgeport, Conn.</i> 109 Elm st.
Arthur Eli Booth, PH.B. } Yale University 1891	<i>Peace Dale, R. I.</i> 23 Lynwood st.
Joseph Bowden, Jr., B.A. } Yale University 1891	<i>New Haven, Conn.</i> 122 Rosette st.
William Lewis Bradley, B.A. } Yale University 1891	<i>New Haven, Conn.</i> 139 Chestnut st.
Philip Embury Browning, B.A. } Yale University 1889	<i>Brooklyn, N. Y.</i> 115 Howe st.
Carleton Lewis Brownson, B.A. } Yale University 1887	<i>New Haven, Ct.</i> Athens, Greece
Edward Franklin Buchner, B.A. } Western College, Iowa 1889	<i>Gibson City, Ill.</i> 54 Park st.
Sterling Haight Bunnell, PH.B. } Yale University 1891	<i>Stratford, Conn.</i> A.
Curtis Clark Bushnell, B.A. } Yale University 1891	<i>New Haven, Conn.</i> 19 Perkins st.
Alfred C Carlson, B.A. } Gustavus Adolphus College 1890	<i>Marine Mills, Minn.</i> 149 St. John st

Herbert DeWitt Carrington, PH.B. } Yale University 1884	<i>New Haven, Conn.</i> 199 York st.
Arthur Willis Colton, B.A. } Yale University 1890	<i>Wayne, Mich.</i> 56 w.
Harlan Creelman, B.D. } Yale University 1889	<i>Worthington, Mass.</i>
Arthur Hill Daniels, B.A. } Olivet College 1887, B.D. Yale University 1890	<i>Millis, Mass.</i> 1010 Chapel st.
Edgar William Danner, B.A. } Yale University 1891	<i>Paterson, N. J.</i> 1161 Chapel st.
Charles Davidson, B.A. } Iowa College 1875	<i>Belmont, Cal.</i> 65 York sq.
Philip Dowell, B.A. } Augustana College 1885	<i>Galva, Ill.</i> 149 St. John st.
William Stahl Ebersole, M.A. } Lebanon Valley College 1888	<i>Mt. Pleasant, Pa.</i> 22 Whalley av.
Wolcott Webster Ellsworth, B.A. } Yale University 1890	<i>Hartford, Conn.</i> 383 George st.
William Newel Filson, B.A. } Illinois College 1889	<i>Jacksonville, Ill.</i> 142 Dwight st.
Irving Fisher, PH.D. } Yale University 1891	<i>New Haven, Conn.</i> 119 Park st.
Joshua Allen Gilbert, B.A. } Otterbein University 1889	<i>Dayton, O.</i> 119 College st.
Matthew Griswold, Jr., PH.B. } Yale University 1888	<i>Erie, Pa.</i> A.
Hippolyte Washington Gruener, B.A. } Yale University 1891	<i>New Haven, Conn.</i> 39 Whiting st.
Alexander Hadlock, B.A. } Kalamazoo College 1878	<i>Kalamazoo, Mich.</i> 91 Lake pl.
Theodore Stuart Hart, B.A. } Yale University 1891	<i>Farmington, Conn.</i> 63 Grove st.
William Walter Heffelfinger, PH.B. } Yale University 1891	<i>Minneapolis, Minn.</i> 251 Crown st.
Morihiro Ichihara, } Kyoto Theol. Seminary 1879	<i>Kyoto, Japan</i> 29 E.
Fritz Jacobson, PH.D. } Yale University 1891	<i>New Haven, Conn.</i> 149 St. John st.
D. Melancthon James, B.A. } Randolph-Macon College 1881, B.D. Yale University 1888	<i>Fair Haven, Ct.</i> 247 Prospect st.
Vertner Kenerson, B.A. } Yale University 1891	<i>New Haven, Conn.</i> 1018 Chapel st.
Jeremiah K. Light, B.A. } Franklin & Marshall Coll. 1889	<i>Lebanon, Pa.</i> 109 Elm st.
Edwin Hoyt Lockwood, PH.B. } Yale University 1888	<i>New Canaan, Conn.</i> 145 College st.

Daniel Alden Loring, Jr., PH.B. } Yale University, 1891	<i>New York City</i> 227 Crown st.
Walter Irenæus Lowe, B.A. } Yale University 1890	<i>Whitinsville, Mass.</i> 22 Whalley av.
Frank Ranney Luckey, B.S. } Cornell University 1882, B.D. Yale University 1888	<i>New Haven, Conn.</i> 21 Eld st.
William Dwight Marsh, B.A. } Amherst College, 1888	<i>Amherst, Mass.</i> 373 Crown st.
Frank Sherman Meara, B.A. } Yale University 1890	<i>Cottage City, Mass.</i> 70 N. M.
Lafayette Benedict Mendel, B.A. } Yale University 1891	<i>Delhi, N. Y.</i> 22 Trumbull st.
Frank Justus Miller, M.A. } Denison University 1882	<i>New Haven, Conn.</i> 433 George st.
James Lee Mitchell, B.A. } Harvard University 1884	<i>New Haven, Conn.</i> 28 Clinton av.
John M. Moore, } National Normal University 1887	<i>Morgantown, Ky.</i> 2 University pl.
Kumato Morita, } Kyoto Theol. Seminary 1879	<i>Kyoto, Japan</i> 377 Crown st.
Edwin Morrison, PH.B. } Yale University 1888	<i>Cincinnati, O.</i> A.
John P. Munson, B.S. } Univ. of Wisconsin 1887	<i>Shabbona, Ill.</i> 7 Fair st.
William James Mutch, B.A. } University of Wisconsin 1882, B.D. Yale University 1885	<i>New Haven, Conn.</i> 194 Cedar st.
August Nelson, B.A. } Gustavus Adolphus College 1890	<i>Lake City, Minn.</i> 149 St. John st.
Hanns Oertel, PH.D. } Yale University 1891	<i>New Haven, Conn.</i> 31 York sq.
Harry Leroy Pangborn, B.A. } Yale University, 1891	<i>Jersey City, N. J.</i> 1161 Chapel st.
Edward Bagby Pollard, B.A. } Richmond College 1886	<i>New Haven, Conn.</i> 13 Lamberton st.
George Nathaniel Prentiss, PH.B. } Yale University 1891	<i>Watertown, Wisc.</i> 126 Wall st.
Artemas Ward Reynolds, B.A. } Colgate University 1885	<i>New Haven, Conn.</i> 14 Park st.
Frank Russell Rich, PH.B. } Yale University 1890	<i>New Haven, Conn.</i> 59 Grove st.
George Samuel Richards, B.D. } Yale University 1891	<i>Mahanoy City, Pa.</i> 70 W.
Milton Holley Robbins, PH.B. } Yale University 1891	<i>Lakeville, Conn.</i> A.
Erwin W. Runkle, B.A. } Western College, Iowa, 1890	<i>Lisbon, Iowa</i> 113 Dwight st.

Thomas Frederic Sanford, B.A. }	<i>New Haven, Conn.</i>	
Yale University 1888 }	513 Winthrop av.	
Edmund Daniel Scott, B.A. }	<i>New Haven, Conn.</i>	44 Vernon st.
Yale University 1889 }		
Ennis Newton Searles, PH.B. }	<i>New Haven, Conn.</i>	
Yale University 1891 }	279 Sherman av.	
Francis Wayland Shepardson, B.A. }		
Brown University 1883, }	<i>Granville, O.</i>	13 Beers st.
M.A. Denison University 1886 }		
Herbert Augustine Smith, B.A. }	<i>Worcester, Mass.</i>	77 W.
Yale University 1889 }		
Herbert Knox Smith, B.A. }	<i>Hartford, Conn.</i>	63 Grove st.
Yale University 1891 }		
William Barnard Smith, B.A. }	<i>Marlboro, Mass.</i>	70 Howe st.
Wesleyan University 1888 }		
George Pratt Starkweather, PH.B. }	<i>New Haven, Conn.</i>	N. H. Hospital
Yale University 1891 }		
Guy VanGorder Thompson, B.A. }	<i>Grand Rapids, Mich.</i>	
University of Colorado 1888 }	88 Prospect st.	
John Clayton Tracy, PH.B. }	<i>Fair Haven, Conn.</i>	299 Center st.
Yale University 1890 }		
Edwin Alonzo Warfield, B.A. }		
Western Maryland College 1882, }	<i>Urbana, Md.</i>	312 Elm st.
B.D. Yale University 1890 }		
Henry Lord Wheeler, PH.B. }	<i>Chicago, Ill.</i>	126 Wall st.
Yale University 1890 }		
John Whitmore, B.A. }	<i>New Haven, Conn.</i>	147 Bradley st.
Yale University 1886 }		

GRADUATE STUDENTS, 76

ACADEMICAL DEPARTMENT

(YALE COLLEGE)

SENIOR CLASS

Harry Allen Grant Abbe	<i>Hartford, Conn.</i>	246 L.
Bernard Melzar Allen	<i>Walpole, Mass.</i>	188 C.
Benjamin Latham Armstrong	<i>New London, Conn.</i>	132 F.
Clarence Willis Austin	<i>Suffield, Conn.</i>	85 N. M.
George Sherwin Clarke Badger	<i>Boston, Mass.</i>	151 F.
Andrew Jackson Balliet	<i>Lehigh, Pa.</i>	71 N. M.
Frank Melville Barber	<i>Wallingford, Conn.</i>	55 S. M.
Arthur Seth Barnes	<i>Bristol, Conn.</i>	9 S.
Charles Joseph Bartlett	<i>Barton Landing, Vt.</i>	191 C.
Hugh Aiken Bayne	<i>New Orleans, La.</i>	258 L.
Howard Morton Biscoe	<i>Westborough, Mass.</i>	106 N.
Frederic Courtney Bishop	<i>Bridgeport, Conn.</i>	122 N.
Edward Clarence Bissell	<i>Lakeville, Conn.</i>	165 F.
Walter Phelps Bliss	<i>New York City</i>	255 L.
Edward Boltwood	<i>Pittsfield, Mass.</i>	219 D.
William Bradford Bosley	<i>Livonia, N. Y.</i>	187 C.
Herbert Ovid Bowers	<i>Manchester, Conn.</i>	6 S.
Arthur Stone Brackett	<i>Hartford, Conn.</i>	122 N.
Fred Clark Gallup Bronson	<i>Norwich, Conn.</i>	61 S. M.
Oliver Hart Bronson	<i>Rye, N. Y.</i>	109 High st.
Preston Brown	<i>Baltimore, Md.</i>	133 F.
Stanley Gano Burt	<i>Cincinnati, O.</i>	215 D.
James Trowbridge Carr	<i>Dubuque, Iowa</i>	265 L.
Alfred Bruce Chace	<i>Hudson, N. Y.</i>	135 F.
Howell Cheney	<i>South Manchester, Conn.</i>	216 D.
Knight Dexter Cheney, Jr.	<i>South Manchester, Conn.</i>	216 D.
Paul Ripley Clark	<i>Auburn, N. Y.</i>	113 N.
Ezekiel Field Clay, Jr.	<i>Paris, Ky.</i>	141 F.
George Lawton Coit	<i>Brooklyn, N. Y.</i>	151 F.
George Wetmore Colles, Jr.	<i>Morristown, N. J.</i>	98 N.
Richard Storrs Colton	<i>Brooklyn, N. Y.</i>	160 F.
Elisha Hilliard Cooper	<i>New Britain, Conn.</i>	75 N. M.
Benjamin Lewis Crosby, Jr.	<i>Halcott Center, N. Y.</i>	105 N.
James Stevens Darcy	<i>Springfield, Mass.</i>	54 S. M.
Arthur Louis Day	<i>Westborough, Mass.</i>	11 S.
Clive Hart Day	<i>Hartford, Conn.</i>	183 LYC.
Albert Grant Dingley	<i>Lewiston, Me.</i>	73 N. M.
Edward Howard Dodd	<i>Summit, N. J.</i>	123 N.

Richard Gardner Eaton	<i>Wakefield, Mass.</i>	44 S. M.
Percy Coe Eggleston	<i>New London, Conn.</i>	140 F.
Roy Knight Farwell	<i>Freeport, Ill.</i>	140 F.
Percy Finlay	<i>Memphis, Tenn.</i>	85 N. M.
Wilbur Parkhurst Fish	<i>Elmira, N. Y.</i>	269 L.
Otis Harrison Fisk	<i>Covington, Ky.</i>	222 D.
Edward Henry Floyd-Jones	<i>South Oyster Bay, N. Y.</i>	226 D.
Hiram Fobes	<i>Salem, Conn.</i>	192 C.
Everett Dwight Francis	<i>West Hartford, Conn.</i>	54 S. M.
William Buel Franklin	<i>Lancaster, Pa.</i>	179 LYC.
Harrison Barber Freeman	<i>Hartford, Conn.</i>	72 N. M.
Charles Hamilton Frost	<i>Plainfield, N. J.</i>	7 S.
Pierpont Fuller	<i>New Haven, Conn.</i>	10 S.
Merrill Williams Gallaway	<i>New York City</i>	255 L.
George Herbert Girty	<i>Cleveland, O.</i>	149 F.
Frederick Everett Grant	<i>Brooklyn, N. Y.</i>	217 D.
Henry Solon Graves	<i>Andover, Mass.</i>	Dwight Hall
Francis Hayt Griffin	<i>Springfield, Mass.</i>	217 D.
Ferdinand Albert Häuslein	<i>Genoa, Ill.</i>	7 S.
Stansbury Tiffany Hager	<i>Brooklyn, N. Y.</i>	9 Library st.
Charles Sherman Haight	<i>Brooklyn, N. Y.</i>	220 D.
William Cuthbert Hall, Jr.	<i>Louisville, Ky.</i>	236 D.
Henry Saunders Haskell	<i>Norwich, Conn.</i>	11 S.
William Stockbridge Haskell	<i>West Falmouth, Me.</i>	8 S.
Donald Rose Hinckley	<i>Northampton, Mass.</i>	46 S. M.
Henry Barrett Hinckley	<i>Northampton, Mass.</i>	46 S. M.
Frederick Wallis Hinkle	<i>Cincinnati, O.</i>	274 L.
Charles Revell Holden	<i>Chicago, Ill.</i>	103 N.
Burton Page Hollister	<i>Cincinnati, O.</i>	203 D.
George Buell Hollister	<i>Rutherford, N. J.</i>	254 L.
Sidney Hosmer	<i>Paterson, N. J.</i>	211 D.
Arthur Carter Hume	<i>Poughkeepsie, N. Y.</i>	204 D.
Daniel Trumbull Huntington	<i>Hartford, Conn.</i>	247 L.
Howard Huntington	<i>Plainfield, N. J.</i>	106 N.
James William Husted, Jr.	<i>Peekskill, N. Y.</i>	204 D.
William James Hutchins	<i>Los Angeles, Cal.</i>	77 N. M.
James W. D. Ingersoll	<i>Marengo, Ill.</i>	174 F.
William Crane Ivison	<i>New York City</i>	254 L.
Pierre Jay	<i>New York City</i>	183 LYC.
Isaac Hallam Jenney	<i>New York City</i>	1018 Chapel st.
Elliot Grant Johnson	<i>Groton, Conn.</i>	28 S.
Frank Arthur Keller	<i>Fort Plain, N. Y.</i>	174 F.
Harry Howell Kennedy	<i>Syracuse, N. Y.</i>	124 N.
Henry Martindale Kidd	<i>Albany, N. Y.</i>	68 N. M.

William Lloyd Kitchel	<i>New Haven, Conn.</i>	169 F.
George Gray Knowles	<i>Wilmington, Del.</i>	278 L.
James Hall Mason Knox, Jr.	<i>Easton, Pa.</i>	266 L.
Sidney Locock Lasell	<i>Orange, N. Y.</i>	57 S. M.
Philip Reynolds Leavenworth	<i>Castleton, Vt.</i>	12 S.
Arthur Franklin Lewis	<i>Bozeman, Mont.</i>	59 Lake pl.
John Frederick Lorange	<i>New Haven, Conn.</i>	60 S. M.
Daniel Lord, 3d	<i>New York City</i>	270 Crown st.
Arthur Lovell	<i>Plainfield, N. Y.</i>	165 F.
Harry Winters Luce	<i>Scranton, Pa.</i>	103 N.
Harry Stoddard Lyman	<i>Salt Lake City, Utah</i>	201 D.
Cloyd North McAllister	<i>St. Joseph, Mo.</i>	90 N. M.
Thomas Lee McClung	<i>Knoxville, Tenn.</i>	258 L.
Henry Buehler McCormick	<i>Harrisburg, Pa.</i>	57 S. M.
Daniel Edgar Manson	<i>New Haven, Conn.</i>	274 L.
Arthur Merwin Marsh	<i>Bridgeport, Conn.</i>	76 N. M.
Elliott Marshall	<i>Montclair, N. Y.</i>	76 N. M.
Levi Winfield Marshall	<i>Middleboro, Mass.</i>	191 C.
Loren Pinckney Waldo Marvin	<i>Hartford, Conn.</i>	8 S.
Edward Hopkins Mason	<i>Chicago, Ill.</i>	219 D.
William Messick	<i>Memphis, Tenn.</i>	364 George st.
Abraham Meyer	<i>Chicago, Ill.</i>	264 L.
Ernest Boyd Millard	<i>Rochester, N. Y.</i>	269 L.
George Redington Montgomery	<i>New Haven, Conn.</i>	34 Trumbull st.
Francis Miner Moody	<i>New Haven, Conn.</i>	38 S. M.
James Albert Moore	<i>Norwich, N. Y.</i>	37 S. M.
Stanford Newel Morison	<i>Minneapolis, Minn.</i>	179 LYC.
Charles Dennis Morris	<i>Wallingford, Conn.</i>	88 N. M.
Robert Wallace Morris	<i>Wallingford, Conn.</i>	55 S. M.
Edward Buffett Mowbray	<i>Bay Shore, N. Y.</i>	89 N. M.
Thornwell Mullally	<i>Pendleton, S. C.</i>	48 S. M.
Marshall Paul Noyes	<i>Evanston, Ill.</i>	120 N.
David Raphael O'Donnell	<i>New Haven, Conn.</i>	30 Ward st.
Allen Cromwell Orrick	<i>St. Louis, Mo.</i>	257 L.
Frank Burton Otis	<i>Meriden, Conn.</i>	74 N. M.
Robert Allan Paddock	<i>St. Louis, Mo.</i>	48 S. M.
Alfred Barnes Palmer	<i>Bridgeport, Conn.</i>	246 L.
Lewis Rathbone Parker	<i>Albany, N. Y.</i>	236 D.
Edward Walker Pease	<i>Cleveland, O.</i>	1 S.
William Grymes Pettus	<i>St. Louis, Mo.</i>	257 L.
John Inglee Phinney	<i>Machias, Me.</i>	181 LYC.
Charles Peabody Pierce	<i>Auburn, Mass.</i>	188 C.
Horace Tracy Pitkin	<i>Philadelphia, Pa.</i>	247 L.
Ralph Carr Powell	<i>Cincinnati, O.</i>	72 N. M.

Frank Julian Price	Brooklyn, N. Y.	214 D.
Henry Riggs Rathbone	Albany, N. Y.	68 N. M.
Matthew Ambrose Reynolds	New Haven, Conn.	550 Whalley av.
Paul Stanley Richards	Philadelphia, Pa.	134 F.
Erman Jesse Ridgway	Galion, O.	44 S. M.
Isaac Woodbridge Riley	New Haven, Conn.	123 N.
William Goodsell Rockefeller	New York City	137 F.
William Nelson Runyon	Plainfield, N. J.	105 N.
George Emery Russell	Sarnia, Ontario, Canada	134 F.
Ernest Ryle	Paterson, N. J.	227 D.
Edward Stevens Sanborn	Kingsston, N. H.	104 N.
Otto Adolph Schreiber	Hoboken, N. J.	227 D.
Charles Augustus Schumaker	Parish, N. Y.	192 C.
Charles Brown Sears	Brooklyn, N. Y.	220 D.
Frank Wright Seymour	Winsted, Conn.	104 N.
Arthur Wynne Shaw	Paterson, N. J.	108 High st.
Augustus Farnham Shaw	Wellsboro, Pa.	190 C.
Forrest Shepherd	Hartford, Conn.	214 D.
Emanuel Frank Snyder	Chicago, Ill.	264 L.
Elmer Haynes Spaulding	New London, Conn.	132 F.
Alfred Lawrence Spencer	New Haven, Conn.	212 D.
Edwin Obed Stanard, Jr.	St. Louis, Mo.	265 L.
Walter Ralph Steiner	Baltimore, Md.	169 F.
Eben Foster Stevens	New York City	256 L.
Herbert Anson Stocking	Wallingford, Conn.	88 N. M.
Alfred Harris Swayne	New York City	203 D.
Harlan Henry Taintor	Hartford, Conn.	75 N. M.
Harrison John Teller	Central City, Col.	69 N. M.
George Davis Terry	Brooklyn, N. Y.	212 D.
Alfred Clark Thompson	Willimantic, Conn.	12 S.
John Knox Tibbits	Troy, N. Y.	92 N. M.
Howard Rockwell Townsend	New York City	215 D.
Frederick Deming Tucker	Monson, Mass.	71 N. M.
James Archibald Turnbull	Hartford, Conn.	124 N.
Ralph Richard Upton	Washington, D. C.	60 S. M.
Newton Foster Vail, B.A. } Hobart College 1890 }	Geneva, N. Y.	38 S. M.
Warren Gookin Waterman	Southport, Conn.	149 F.
Henry Goodwin Webster	Brooklyn, N. Y.	89 N. M.
Stuart Webster	Chicago, Ill.	201 D.
Irving Comstock West	Plainfield, N. J.	73 N. M.
James Everett Wheeler	New Haven, Conn.	278 L.
Junius Wheeler	Chicago, Ill.	101 N.
Albert Lavine Whittaker	Wallingford, Conn.	74 N. M.

Norman Clark Whittemore	<i>Rye, N. Y.</i>	92 N. M.
Abram Case Williams	<i>East Hartford, Conn.</i>	6 S.
Clarence Cicero Wilson	<i>Avon, Conn.</i>	28 S.
Frank Tobey Winslow	<i>Watertown, N. Y.</i>	69 N. M.
Charles Lawson Wooding	<i>Bristol, Conn.</i>	9 S.
Frederick Sanford Woodruff	<i>New York City</i>	266 L.
John Sitcher Woodruff	<i>New York City</i>	211 D.
Harry Woollen	<i>Indianapolis, Ind.</i>	120 N.
William Burnet Wright, Jr.	<i>Buffalo, N. Y.</i>	Dwight Hall
Herbert James Wyckoff	<i>North Woodbury, Conn.</i>	222 D.
William Denison Young	<i>New York City</i>	226 D.

SENIORS, 180

JUNIOR CLASS

Franklin Jones Abbe	<i>Hartford, Conn.</i>	130 F.
Henry Crosby Allen	<i>Paterson, N. J.</i>	156 F.
John Weston Allen	<i>New Haven, Conn.</i>	116 N.
Lafon Allen	<i>Louisville, Ky.</i>	157 F.
Joseph Anderson, Jr.	<i>Waterbury, Conn.</i>	208 D.
Christopher Lester Avery, Jr.	<i>Groton, Conn.</i>	59 S. M.
John Whitney Avery	<i>New Haven, Conn.</i>	261 L.
James Addison Babbitt	<i>West Brattleboro', Vt.</i>	127 N.
Henry Selden Bacon	<i>Rochester, N. Y.</i>	245 L.
Henry Burr Barnes, Jr.	<i>New York City</i>	230 D.
Ellery Alphonso Bates	<i>Windham, Conn.</i>	43 S. M.
Henry Colwell Beadleston	<i>New York City</i>	262 L.
George Palmer Beebe	<i>Norfolk, Conn.</i>	168 F.
William Reynolds Begg	<i>Hendersonville, N. C.</i>	26 S.
Howbert Billman	<i>Yale, Mich.</i>	189 C.
Ralph Birdsall	<i>Los Angeles, Cal.</i>	78 Ward st.
Harry Llewellyn Bixby	<i>Long Beach, Cal.</i>	225 D.
Clifford Douglass Bliss	<i>New York City</i>	208 D.
William Bradford Boardman	<i>New Britain, Conn.</i>	110 N.
Gerald Mark Borden	<i>Chicago, Ill.</i>	163 F.
Charles Wilder Bosworth	<i>Springfield, Mass.</i>	112 N.
Harry Howard Bottome	<i>New York City</i>	249 L.
Howard Sidney Bowns	<i>Fort Hamilton, L.I., N. Y.</i>	224 D.
Henry Dana Bradley	<i>New Haven, Conn.</i>	Main st. (Annex)
William Edwin Breckenridge	<i>Palmer, Mass.</i>	127 N.
Thomas Hamilton Breeze	<i>San Francisco, Cal.</i>	226 York st.
George Justus Briggs	<i>Danielsonville, Conn.</i>	186 C.

Theodore Louis Bristol	Ansonia, Conn.	162 F.
Edward Harold Bronson	Norwich, Conn.	61 S. M.
Frank James Brown	Warren, Pa.	43 S. M.
Lawrence Edward Brown	New York City	109 Temple st.
Wendell Greene Brownson	New Canaan, Conn.	130 F.
Cornelius Sanford Bull	Terryville, Conn.	260 L.
Ross Burchard	South Norwalk, Conn.	210 D.
Louis Hood Burrell	Freeport, Ill.	225 Crown st.
Frank Howard Button	Peekskill, N. Y.	241 L.
Nehemiah Candee	Easton, Conn.	87 N. M.
William Thomas Capps	Jacksonville, Ill.	142 Dwight st.
Otho Granford Cartwright	Belmont, N. Y.	100 N.
Thomas Ives Chatfield	Owego, N. Y.	86 Broadway
Alvah Stone Chisholm	Cleveland, O.	238 D.
Charles Walker Clark	Butte City, Mont.	252 L.
John Darling Clarke	Canterbury, Conn.	147 F.
James Barclay Cooke	Paterson, N. J.	234 D.
John Smith Cravens	Kansas City, Mo.	172 F.
George Mason Creevey	Brooklyn, N. Y.	250 L.
Beecher Maynard Crouse	Utica, N. Y.	205 D.
Elliot Stone Curtis	Tidioute, Pa.	101 N.
Howard Dorrance Day	Providence, R. I.	22 S.
Robert Kerr Dickerman	Foxboro, Mass.	161 F.
Nathan Boynton Dill	Clearfield, Pa.	252 L.
Frank Edward Donnelly	Oxford, N. Y.	37 S. M.
Francis Oswald Dorsey	Indianapolis, Ind.	152 F.
Richard Edward Dunham	Warren, Pa.	82 Wall st.
Henry Rutherford Dwight	Brooklyn, N. Y.	116 W.
James Schneider Dwight	Poughkeepsie, N. Y.	163 F.
Winthrop Edwards Dwight	New Haven, Conn.	126 College st.
William Walton Eccles	Auburn, N. Y.	113 N.
Charles Brown Eddy	New Britain, Conn.	112 N.
John Percival Edmison	Sioux Falls, S. Dak.	159 F.
Charles Hull Ewing	South Dayton, N. Y.	77 N. M.
Archer Linwood Faxon	Holbrook, Mass.	129 F.
Charles Jarvis Fay	Hartford, Conn.	250 L.
Irving Bruce Ferguson	New York City	332 Temple st.
Henry Horlbeck Ficken	Charleston, S. C.	13 S.
John Howe Field	Rutland, Vt.	161 F.
George Mark Foos	Springfield, O.	233 D.
James Charles Fox	Clinton, Conn.	111 N.
Edson Fessenden Gallaudet	Washington, D. C.	268 L.
Thomas Augustus Gardiner	Brooklyn, N. Y.	141 York st.
Frank Edwin Gatchel	Louisville, Ky.	157 F.

Rufus Macqueen Gibbs	Baltimore, Md.	225 Crown st.
Giles Frederic Goodenough	Winchester, Conn.	17 S.
James Edward Grafton	Norwich, Conn.	141 Temple st.
Charles Andrew Graham	Denver, Col.	221 D.
Arthur Lawrence Greer	New York City	235 D.
William Henry Hackett	New Haven, Conn.	143 West st.
Donald Cameron Haldeman	Harrisburg, Pa.	253 L.
James Montgomery Hare	New York City	206 D.
Clarence Clifford Harmstad	Jersey City, N. J.	224 D.
Samuel Brainard Hartwell	Oil City, Pa.	10 S.
Allyn Fitch Harvey	Cleveland, O.	145 F.
Frank William Hastings, Jr.	Bradford, Pa.	131 F.
Logan Hay	Springfield, Ill.	232 D.
Theodore Woolsey Heermance	New Haven, Conn.	168 F.
Charles Ralph Hickox, Jr.	New York City	120 High st.
William McKimmie Higgins	Thompsonville, Conn.	25 S.
Frederick Asbury Hill	Norwalk, Conn.	66 W.
James Norman Hill	St. Paul, Minn.	1076 Chapel st.
John Payson Hobbie	Cazenovia, N. Y.	233 D.
Ben Hodge	St. Paul, Minn.	263 L.
Richard Thayer Holbrook	New York City	162 F.
Robert Kellogg Howe	South Windsor, Conn.	81 N. M.
John LeRoy Hurlbert	Forestville, N. Y.	59 S. M.
Shubael Cady Hutchins	Danielsonville, Conn.	147 F.
Sherwood Bissell Ives	New York City	235 D.
Harry Benjamin Jepson	New Haven, Conn.	116 N.
Lewis Fuller Johnson	Bangor, Me.	131 F.
Alfred Henry Jones	St. Louis, Mo.	277 L.
Charles Davies Jones	Cincinnati, O.	205 D.
Riverda Harding Jordan	St. Joseph, Mo.	100 N.
Homer Thrall Joy	Newark, N. J.	228 D.
Walter Parmelee Judson	New Haven, Conn.	204 Winthrop av.
Charles David Kyle	Cayuga, N. Y.	126 N.
Adrian VanSinderen Lambert	New York City	280 L.
Edwin Ruthven Lamson	Montclair, N. J.	125 N.
William Judson Lamson	Montclair, N. J.	125 N.
Irwin Boyle Laughlin	Pittsburgh, Pa.	234 D.
Burton Emerson Leavitt	New Haven, Conn.	48 Gill st.
James Patrick Linahan	New Haven, Conn.	271 Ferry st.
Frederick Merwin Lloyd	New Haven, Conn.	152 F.
Arthur Power Lord	New York City	159 F.
Irving Phillips Lyon	Hartford, Conn.	260 L.
William James McKenna	Westborough, Mass.	27 S.
Stuart McKnight	Louisville, Ky.	1150 Chapel st.

William Maffitt	<i>St. Louis, Mo.</i>	251 Crown st.
Arthur James Martin	<i>Deckertown, N. J.</i>	119 N.
George Greene Martin	<i>St. Louis, Mo.</i>	114 High st.
Walter Rumsey Marvin	<i>Pittsburgh, Pa.</i>	249 L.
Edward Thomson Mathison	<i>New Haven, Conn.</i>	2 Audubon st.
Alfred Kindred Merritt	<i>Brainerd, Minn.</i>	41 High st.
Winlock William Miller	<i>Olympia, Wash.</i>	148 F.
Charles William Mills	<i>Denver, Col.</i>	221 D.
George Edward Mills	<i>Norwood, O.</i>	166 F.
Franklin Arthur Moore	<i>Detroit, Mich.</i>	225 D.
John Stanley Moore	<i>Syracuse, N. Y.</i>	262 L.
John Hill Morgan	<i>Brooklyn, N. Y.</i>	218 D.
Albert Hooker Morse	<i>Plantsville, Conn.</i>	119 N.
William Henry Murphy	<i>Southville, Mass.</i>	27 S.
Alfred Goldstein Nadler	<i>New Haven, Conn.</i>	122 Olive st.
Emerson Root Newell	<i>Bristol, Conn.</i>	110 N.
William Lewis Newton	<i>Brooklyn, N. Y.</i>	24 S.
William Allan Osborn	<i>Cleveland, O.</i>	238 D.
William White Wilson Parker	<i>Washington, D. C.</i>	206 D.
Francis Parsons	<i>Hartford, Conn.</i>	268 L.
George Leete Peck	<i>Jamaica, N. Y.</i>	West Haven
Alton William Peirce	<i>Athol Center, Mass.</i>	78 N. M.
Albert Wells Pettibone, Jr.	<i>LaCrosse, Wisc.</i>	273 L.
Charles Macauley Pope	<i>St. Louis, Mo.</i>	272 L.
Albert Hutchinson Putney	<i>Newton Highlands, Mass.</i>	56 S. M.
Harry Campbell Quintard	<i>Sound Beach, Conn.</i>	78 N. M.
Gerald Laurence Rathbone	<i>Albany, N. Y.</i>	242 L.
George Howard Rice	<i>Springfield, Mass.</i>	98 N.
John Trumbull Robinson	<i>Hartford, Conn.</i>	230 D.
Joseph Roby	<i>Rochester, N. Y.</i>	242 L.
Derby Rogers	<i>New York City</i>	128 N.
Robert Edwin Rowley	<i>Williamsport, Pa.</i>	253 L.
Louis Barcroft Runk	<i>Philadelphia, Pa.</i>	166 F.
Herbert Irving Sackett	<i>New Haven, Conn.</i>	127 College st.
William Clement Scott	<i>Newburgh, N. Y.</i>	210 D.
Samuel Scoville, Jr.	<i>Stamford, Conn.</i>	109 N.
Hubert Merrill Sedgwick	<i>Bondsville, Mass.</i>	87 N. M.
Albert Judson Shaw	<i>Somerville, Mass.</i>	24 S.
George Theron Slade	<i>New York City</i>	218 D.
William Warren Smith	<i>Buffalo, N. Y.</i>	280 L.
George Brown Spalding	<i>Syracuse, N. Y.</i>	126 N.
Samuel Reid Spencer	<i>Suffield, Conn.</i>	347 York st.
Henry Crosby Stetson	<i>Bangor, Me.</i>	245 L.
Robbins Battell Stoeckel	<i>New Haven, Conn.</i>	241 L.

Wendell Melville Strong	<i>Montclair, N. J.</i>	261 L.
Carlyle Edgar Sutphen, Jr.	<i>Newark, N. J.</i>	1090 Chapel st.
Noah Haynes Swayne, 2d	<i>New York City</i>	232 D.
Moses Taylor	<i>New York City</i>	240 D.
William Stoutenborough Terriberry	<i>Paterson, N. J.</i>	156 F.
John Booth Thomas	<i>Rockville, Conn.</i>	53 S. M.
Herbert Gordon Thomson	<i>New York City</i>	128 N.
William Preston Thornton	<i>Lexington, Ky.</i>	13 S.
Dexter Edgar Tilley	<i>W. Springfield, Mass.</i>	53 S. M.
Horace Gates Torbert	<i>Dubuque, Iowa</i>	273 L.
Edward Holman Tracy	<i>Topeka, Kan.</i>	56 S. M.
Robert Storer Tracy	<i>Plainfield, N. J.</i>	239 D.
Charles Gallaudet Trumbull	<i>Philadelphia, Pa.</i>	228 D.
Harry Selden Vaile	<i>Oak Park, Ill.</i>	41 High st.
William Henry Vanderbilt	<i>New York City</i>	240 D.
Isidore Wachsman	<i>Albany, N. Y.</i>	209 D.
Robert Buchanan Wade	<i>St. Louis, Mo.</i>	277 L.
Richard Charles Wells Wadsworth	<i>New Brighton, N. Y.</i>	172 F.
Alexander Hamilton Wallis	<i>East Orange, N. J.</i>	101 W.
John Dorrance Warnock	<i>Geneva, N. Y.</i>	25 S.
Lemuel Aikin Welles	<i>Newington, Conn.</i>	22 S.
Ernest Hubbard Wells	<i>Louisville, Ky.</i>	57 Prospect st.
Carl Westerfeld	<i>San Francisco, Cal.</i>	124 Wall st.
Arthur Leslie Wheeler	<i>Hartford, Conn.</i>	26 S.
Webster Wheelock	<i>St. Paul, Minn.</i>	263 L.
Albert Beebe White	<i>Holbrook, Mass.</i>	129 F.
John Harvey Wigginton	<i>Bladensburg, Md.</i>	12 Edgewood av.
Walter Dwight Wilcox	<i>Washington, D. C.</i>	127 College st.
Frank Curtis Wilder	<i>New York City</i>	21 Whalley av.
Edward Mason Williams	<i>Cleveland, O.</i>	145 F.
Morris Woodruff, Jr.	<i>New York City</i>	252 York st.
Alfred Charles Woolner	<i>Peoria, Ill.</i>	209 D.
Wilbur Seaman Wright	<i>Greenwich, Conn.</i>	39 S. M.
Frederick Washburn Yates	<i>Plainfield, N. J.</i>	239 D.

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SOPHOMORE CLASS

Samuel Stokes Allen	<i>Philadelphia, Pa.</i>	47 S. M.
William Boyd Allison, Jr.	<i>Dubuque, Iowa</i>	373 Crown st.
Thomas Shaw Arbuthnot	<i>Pittsburgh, Pa.</i>	168 York st.
Frederick Searles Armstrong	<i>Brooklyn, N. Y.</i>	170 York st.
Raymond Holbrook Arnot	<i>Exeter, N. H.</i>	14 S.
Samuel Sloan Auchincloss	<i>New York City</i>	71 W.
William Bacon Bailey	<i>Springfield, Mass.</i>	22 Lynwood st.
Harry Samuel Bandler	<i>Owego, N. Y.</i>	146 F.
Alexis Painter Bartlett	<i>Farmington, Conn.</i>	1079 Chapel st.
William Spencer Beard	<i>South Killingly, Conn.</i>	31 S.
André Alden Beaumont	<i>San Antonio, Texas</i>	364 George st.
Martin Luther Beeler	<i>Mossy Creek, Tenn.</i>	91 N. M.
Albert Anson Bigelow	<i>St. Paul, Minn.</i>	167 F.
Charles Benjamin Bishop, Jr.	<i>Litchfield, Conn.</i>	30 S.
Clinton Spencer Bissell	<i>Litchfield, Conn.</i>	29 S.
Samuel Burr Sherwood Bissell	<i>New York City</i>	168 York st.
Murray Boocock	<i>Brooklyn, N. Y.</i>	227 Crown st.
Edward Richmond Bosley	<i>Lakeville, N. Y.</i>	187 C.
Frederick Merrell Boyer	<i>Watertown, N. Y.</i>	144 F.
Albert Simmons Briggs	<i>North Dighton, Mass.</i>	111 York st.
Alphonso Bickford Brown	<i>Dover, N. H.</i>	31 S.
James Crosby Brown	<i>New York City</i>	250 Crown st.
James Elwyn Brown	<i>Pittsburgh, Pa.</i>	1010 Chapel st.
Albert Henry Buck	<i>Wilmington, Del.</i>	601 Chapel st.
Charles Herbert Buell	<i>Brooklyn, N. Y.</i>	1010 Chapel st.
Frank Scott Bunnell	<i>Stratford, Conn.</i>	135 College st.
Edward Frederick Burke	<i>Orange, N. J.</i>	1010 Chapel st.
Calvin Burr	<i>Auburn, N. Y.</i>	166 York st.
Harold Edgar Buttrick	<i>Brooklyn, N. Y.</i>	1079 Chapel st.
Walter Reid Callender	<i>Providence, R. I.</i>	159 Elm st.
Ira Merrill Carley	<i>New Haven, Conn.</i>	133 College st.
George Bowen Case	<i>Kansas City, Mo.</i>	180 LYC.
Patrick Joseph Cassidy	<i>Norwich, Conn.</i>	217 York st.
John Frank Chace	<i>Hudson, N. Y.</i>	135 F.
John Payson Chamberlain	<i>Seneca Falls, N. Y.</i>	124 W.
Julian Ingersoll Chamberlain	<i>New York City</i>	251 L.
Frederick Shepard Chapman	<i>Saybrook, Conn.</i>	82 N. M.
Frank Herbert Chase	<i>Haverhill, Mass.</i>	133 College st.
William Genung Chase	<i>Eddytown, N. Y.</i>	90 N. M.
William Henry Clark, Jr.	<i>Saginaw, Mich.</i>	109 Elm st.
Ward Robinson Clarke	<i>Candor, N. Y.</i>	80 N. M.

Thomas Cochran, Jr.	<i>St. Paul, Minn.</i>	203 York st.
Ezra Hoyt Connell	<i>Scranton, Pa.</i>	1079 Chapel st.
Joseph Platt Cooke	<i>Oakland, Cal.</i>	332 Temple st.
William Clayton Crafts	<i>Austin, Ill.</i>	143 F.
Erastus Milo Cravath, Jr.	<i>Nashville, Tenn.</i>	4 S.
Charles Frederic Crawford	<i>Chicago, Ill.</i>	159 Elm st.
George Marshall Crawford	<i>Topeka, Kan.</i>	1010 Chapel st.
Romaine Hard Crosby	<i>Brooklyn, N. Y.</i>	231 York st.
Ferdinand Swift Crosley	<i>Springfield, Mass.</i>	109 Elm st.
Walter Barnes Crutenden	<i>East River, Conn.</i>	67 N. M.
Clinton James Curtis	<i>West Winsted, Conn.</i>	154 F.
Thomas Frederick Davies, Jr.	<i>Detroit, Mich.</i>	297 Crown st.
Henry Shepherd Dawson, Jr.	<i>New Haven, Conn.</i>	142 Dwight st.
Edward Marvin Day	<i>Colchester, Conn.</i>	295 York st.
Charles I. DeBevoise	<i>Brooklyn, N. Y.</i>	109 Elm st.
Allen Ross Defendorf	<i>Fairport, N. Y.</i>	62 S. M.
Arthur Gillespie Dickson	<i>Philadelphia, Pa.</i>	1010 Chapel st.
Loten Abijah Dinsmoor	<i>Warren, Pa.</i>	4 S.
Alexander Samuel Diven	<i>Elmira, N. Y.</i>	259 L.
Frank Phelps Dodge	<i>New York City</i>	1142 Chapel st.
Bayard Dominick, Jr.	<i>New York City</i>	251 L.
George Francis Dominick, Jr.	<i>New York City</i>	124 W.
George Elias Dorland	<i>Buffalo, N. Y.</i>	361 Elm st.
Winthrop Hillyer Duncan	<i>Lowell, Mass.</i>	1010 Chapel st.
Casselberry Dunkerson	<i>Evansville, Ind.</i>	164 F.
Harry Westbrook Dunning	<i>Jamaica Plain, Mass.</i>	3 S.
Frederick Dwight	<i>Brooklyn, N. Y.</i>	116 W.
George Francis Eaton	<i>New Haven, Conn.</i>	70 Sachem st.
Theodore Eaton	<i>Wakefield, Mass.</i>	15 S.
Thomas Long Ellis	<i>Portland, Me.</i>	18 S.
Arthur Wells Elting	<i>Upper Red Hook, N. Y.</i>	32 S.
Henry Lane Eno	<i>Saugatuck, Conn.</i>	250 Crown st.
John Mackintosh Ferguson	<i>Pittsburgh, Pa.</i>	276 Crown st.
Albert Nelson Cheney Fowler	<i>Glens Falls, N. Y.</i>	1018 Chapel st.
George Howard Fox	<i>New York City</i>	84 N. M.
Lewis Fox Frissell	<i>New York City</i>	15 S.
Clinton Hart Furbish	<i>Spencerport, N. Y.</i>	111 N.
Edward Joseph Garvan	<i>East Hartford, Conn.</i>	1010 Chapel st.
Charles Henry George	<i>Milwaukee, Wisc.</i>	44 Elm st.
Merwin Jephtha Gibbons	<i>New Haven, Conn.</i>	138 Park st.
Louis Packard Gillespie	<i>New York City</i>	1010 Chapel st.
Thomas Warrington Gosling	<i>Cincinnati, O.</i>	14 S.
John Henry Goss	<i>Waterbury, Conn.</i>	127 College st.
Allen Greeley	<i>Jacksonville, Fla.</i>	138 F.

Gervase Green	<i>St. Helens, England</i>	97 N.
Nathan Williams Green	<i>Worcester, Mass.</i>	383 George st.
Warren William Guthrie, Jr.	<i>Atchison, Kan.</i>	107 N.
Charles Henry Hall, Jr.	<i>Brooklyn, N. Y.</i>	231 York st.
John Loomer Hall	<i>Willimantic, Conn.</i>	297 Crown st.
Frank Manson Haradon	<i>Marshalltown, Iowa</i>	310 Elm st.
Meredith Hare	<i>New York City</i>	203 York st.
Amos Thompson Harrington	<i>Lyons, N. Y.</i>	173 F.
Frank John Harris	<i>New York City</i>	168 York st.
James Anderson Hawes	<i>New York City</i>	1018 Chapel st.
Fidelio Sharp Henry	<i>Chicago, Ill.</i>	139 F.
Everett Gleason Hill	<i>Madison, Conn.</i>	82 N. M.
George Cooley Hixon	<i>La Crosse, Wisc.</i>	159 Elm st.
Ralph Winthrop Holmes	<i>West Winsted, Conn.</i>	158 F.
Hamilton Holt	<i>Spuysten Duyvil, N. Y.</i>	84 N. M.
Edwin Olaf Holter	<i>Helena, Mont.</i>	170 York st.
Walter Deyo Hood	<i>Auburn, N. Y.</i>	62 S. M.
Lloyd Mortimer Howell	<i>West Hampton Beach, N. Y.</i>	279 L.
John Howland	<i>New York City</i>	45 S. M.
Alfred Burdette Hughes	<i>New Haven, Conn.</i>	130 Forbes av.
Charles Nelson Hulburt	<i>Norwich, Conn.</i>	310 Elm st.
Ralph Squire Hull	<i>Scranton, Pa.</i>	556 Chapel st.
Caleb Samuel Jackson	<i>Allegheny, Pa.</i>	1018 Chapel st.
Charles Orlando Jenkins	<i>Cleveland, O.</i>	383 George st.
James Sinclair Jenkins	<i>Stamford, Conn.</i>	45 S. M.
Nathan Hall Jewett	<i>Buffalo, N. Y.</i>	229 D.
Lawrence Bullard Jones	<i>Wilkes-Barre, Pa.</i>	116 High st.
Arthur Judson	<i>Montclair, N. J.</i>	3 S.
Frederick Love Keays	<i>North Berwick, Me.</i>	1150 Chapel st.
Sarkis Couzu Kebabian	<i>Rodosto, Turkey</i>	9 Library st.
Herbert Humphrey Kellogg	<i>Carthage, Mo.</i>	80 N. M.
Charles Garfield King	<i>Chicago, Ill.</i>	114 High st.
Rufus King	<i>Cincinnati, O.</i>	132 Wall st.
Edward Kirkland	<i>Utica, N. Y.</i>	132 Wall st.
Ernest Knaebel	<i>Santa Fé, N. M.</i>	1150 Chapel st.
Clarence Hinman Lake	<i>New Haven, Conn.</i>	137 College st.
George Bigelow Bartlett Lamb	<i>New Haven, Conn.</i>	584 Chapel st.
Howard Asa Lamprey	<i>Laconia, N. H.</i>	3 S.
John Edward Lane	<i>North Hadley, Mass.</i>	64 W.
Edward Herman Lay	<i>Fulton, Ill.</i>	55 Prospect st.
William Henry Leete	<i>Thompsonville, Conn.</i>	2 S.
Albert William Lindeke	<i>St. Paul, Minn.</i>	114 High st.
Charles Pleasants Lineaweaver	<i>Pottsville, Pa.</i>	121 Whitney av.
Raymond Lloyd	<i>Cincinnati, O.</i>	237 D.

Frederick Ayres Lockwood	Norwalk, Conn.	237 D.
Ralph Longenecker	Bedford, Pa.	107 Temple st.
Harry Frank Loomis	New York City	1018 Chapel st.
Ralph Reed Lounsbury	Hartford, Conn.	29 S.
Walter Whitney Lounsbury	New Haven, Conn.	22 Lincoln st.
Charles Noyes Loveland	Wilkes-Barre, Pa.	68 W.
Dean Belden Lyman	Salt Lake City, Utah	1079 Chapel st.
Frederick Henry Lynch	Peace Dale, R. I.	119 Park st.
George Day McBirney	Chicago, Ill.	63 W.
William Wickliffe McCandless	Pittsburgh, Pa.	107 Temple st.
Edward Hill McCray	Rockville, Conn.	81 N. M.
Hall Park McCullough	Bennington, Vt.	1010 Chapel st.
Frank Elmer McDuffee	Bradford, Vt.	64 W.
Buell McKeever	Chicago, Ill.	165 York st.
Winthrop McKim	Navesink, N. J.	1010 Chapel st.
Kirk Crawford McKinney	Pueblo, Col.	58 W.
Harry Brent Mackoy	Covington, Ky.	175 F.
Philip Hamilton McMillan	Detroit, Mich.	178 LYC.
John Albert Matthewman	New Haven, Conn.	480 Winthrop av.
Guy Bryan Miller	New Rochelle, N. Y.	58 W.
Pendleton Miller	Olympia, Wash.	148 F.
Arthur Mitchell, Jr.	New York City	223 York st.
William Russell Moorhouse	Chicago, Ill.	26 High st.
George Denison Morgan	New York City	226 Crown st.
Joseph Elias Morgan	Essex, Conn.	97 N.
John Edward Morley	Saginaw, Mich.	1076 Chapel st.
Henry Perkins Moseley	New Haven, Conn.	68 W.
Oliver Clayton Mosman	St. Joseph, Mo.	1010 Chapel st.
Walter Fletcher Murray	Plainfield, N. J.	229 D.
Robert Hubbard Nelson	Bridgeport, Conn.	57 Lake pl.
Robert Hastings Nichols	Binghamton, N. Y.	99 N.
Alvin Probasco Nipgen	Chillicothe, O.	1010 Chapel st.
Cyrus Clarke Nolan	Chicago, Ill.	132 Wall st.
Henry Shore Noon	Gloucester, Mass.	67 N. M.
Daniel O'Day, Jr.	Buffalo, N. Y.	1010 Chapel st.
George William Olmsted	Buffalo, N. Y.	182 LYC.
Samuel Lowry Orr	Evansville, Ind.	164 F.
Charles Grosvenor Osgood, Jr.	Wellsborough, Pa.	190 C.
Ralph Delahay Paine	St. Augustine, Fla.	120 College st.
Frederick Curtis Perkins	Sharon, Pa.	64 High st.
Henry Bishop Perkins, Jr.	Warren, O.	64 High st.
Frederick Torrel Persons	Sandisfield, Mass.	47 S. M.
Ansel Phelps	New York City	248 L.
Isaac King Phelps	Thompsonville, Conn.	2 S.

Decius Latimer Pierson	<i>Hartford, Conn.</i>	1079 Chapel st.
Frank Lyon Polk	<i>New York City</i>	64 High st.
Alfred Macauley Pope	<i>St. Louis, Mo.</i>	272 L.
Alonzo Potter	<i>New York City</i>	64 High st.
James Tracy Potter	<i>North Adams, Mass.</i>	143 F.
Warwick James Price	<i>Cleveland, O.</i>	1079 Chapel st.
Edward Franklin Raymond	<i>Chicago, Ill.</i>	107 York st.
William Miner Raymond	<i>Chicago, Ill.</i>	182 L.Y.C.
Edward John Redington	<i>Syracuse, N. Y.</i>	34 Trumbull st.
Edward Bliss Reed	<i>Holyoke, Mass.</i>	192 York st.
Harry Simeon Richardson	<i>Chicago, Ill.</i>	236 Crown st.
Ernest Lauren Robinson	<i>Meriden, Conn.</i>	Meriden
Howard Roosa	<i>Rosendale, N. Y.</i>	65 N. M.
Charles Philemon Rowley	<i>Poughkeepsie, N. Y.</i>	86 W.
Wilkins Rustin	<i>Omaha, Nebr.</i>	114 High st.
Albert Thorpe Ryan	<i>Washington, D. C.</i>	1010 Chapel st.
George Hope Ryder	<i>Plainfield, N. J.</i>	193 C.
William Henry Sallmon	<i>London, Canada</i>	72 W.
Walter Edward Sanders	<i>Auburndale, Mass.</i>	49 S. M.
Charles William Saunders	<i>Penn Yan, N. Y.</i>	18 S.
James Cowan Sawyer	<i>Dover, N. H.</i>	166 York st.
Origen Storrs Seymour, Jr.	<i>Bridgeport, Conn.</i>	297 Crown st.
Joseph Earl Sheffield	<i>Attleboro, Mass.</i>	153 F.
George Montgomery Sicard	<i>Utica, N. Y.</i>	226 York st.
Harry Shevelom Silverstein	<i>Denver, Col.</i>	23 S.
Eugene Wilson Skelton	<i>Brooklyn, N. Y.</i>	1 S.
Charles Rives Skinker	<i>St. Louis, Mo.</i>	153 F.
Charles Albert Smith	<i>Bridgeport, Conn.</i>	109 Temple st.
Howard Franklin Smith	<i>Hartford, Conn.</i>	30 S.
Leonard Bacon Smith	<i>New York City</i>	27 High st.
Letchworth Smith	<i>Auburn, N. Y.</i>	154 F.
Rest Fenner Smith, Jr.	<i>East Orange, N. J.</i>	1173 Chapel st.
Charles James Sniffen	<i>Stratford, Conn.</i>	Stratford
John Beach Solley, Jr.	<i>Brooklyn, N. Y.</i>	64 S. M.
Carl Frederic Stahl	<i>New Haven, Conn.</i>	556 Chapel st.
Walter Eugene Stewart, Jr.	<i>Plainfield, N. J.</i>	64 S. M.
Leland Stanford Stillman	<i>Brooklyn, N. Y.</i>	203 York st.
Alfred Worthington Stone	<i>New York City</i>	279 L.
Edward Merrill Stothers	<i>Staten Island, N. Y.</i>	32 S.
Harry Lockman Street	<i>Chicago, Ill.</i>	86 W.
Andrew Sandford Taylor	<i>South Orange, N. J.</i>	41 S. M.
James Henry Taylor	<i>Charleston, S. C.</i>	173 F.
Edward Russell Thomas	<i>New York City</i>	158 F.
William Edward Thoms	<i>Waterbury, Conn.</i>	99 N.

William Josiah Tilson	<i>Clear Branch, Tenn.</i>	91 N. M.
William Todd	<i>Calais, Me.</i>	1010 Chapel st.
Ralph Tousey	<i>Brooklyn, N. Y.</i>	63 S. M.
George Marcy Townsend	<i>Hartford, Conn.</i>	256 L.
James Rutherford Trowbridge	<i>Chicago, Ill.</i>	63 S. M.
Henry Brownell Tucker	<i>Troy, N. Y.</i>	1010 Chapel st.
Willard Gibbs VanName	<i>New Haven, Conn.</i>	121 High st.
George Finch VanSlyck	<i>New York City</i>	193 C.
Harry Stephen Vorhis	<i>Spencer, N. Y.</i>	65 N. M.
William Stuart Walcott, Jr.	<i>New York Mills, N. Y.</i>	180 LYC.
James Alexander Waller	<i>Chicago, Ill.</i>	1018 Chapel st.
Milton Jones Warner	<i>Salisbury, Conn.</i>	17 Wooster pl.
Walter Abbott Waterman	<i>Griswold, Conn.</i>	34 Hillhouse av.
Frederic Jabez Waters	<i>Cincinnati, O.</i>	62 W.
Harry Little Welch	<i>New Haven, Conn.</i>	59 Wall st.
Milton Ferdinand Westheimer	<i>St. Joseph, Mo.</i>	23 S.
John Walker Wheeler	<i>Bridgeport, Conn.</i>	1142 Chapel st.
Shelton King Wheeler	<i>Chattanooga, Tenn.</i>	146 F.
Jay Edmund Whiting	<i>Granville, N. Y.</i>	39 Bradley st.
Harry Payne Whitney	<i>New York City</i>	178 LYC.
Egerton Ryerson Williams, Jr.	<i>New York City</i>	203 York st.
James Dawes Williams	<i>North Adams, Mass.</i>	62 W.
Nathaniel Niles Wilson	<i>San Francisco, Cal.</i>	159 Elm st.
Thomas Melvill Womersley	<i>Greenfield, Mass.</i>	383 George st.
William Wallace Woodruff, Jr.	<i>Knoxville, Tenn.</i>	361 Elm st.
Charles Francis Word	<i>Helena, Mont.</i>	170 York st.
Richard Hardesty Worthington	<i>Baltimore, Md.</i>	139 F.
William Runk Wright	<i>New York City</i>	248 L.

SOPHOMORES, 245

FRESHMAN CLASS

Clark Hamilton Abbott	<i>Ovid, N. Y.</i>	40 S. M.
Daniel Crouse Adams	<i>Utica, N. Y.</i>	276 Crown st.
Henry Herschel Adams, Jr.	<i>New York City</i>	44 Elm st.
George Townsend Adee	<i>Bartow on the Sound, N. Y.</i>	159 Elm st.
Benjamin Chauncey Allen	<i>Chicago, Ill.</i>	219 York st.
Walter Hinds Allen	<i>New Haven, Conn.</i>	20 S.
George Buell Alvord	<i>Torrington, Conn.</i>	158 York st.
Edgar Stirling Auchincloss, Jr.	<i>New York City</i>	271 L.
Henry Andrew Baker	<i>Union Hill, N. Y.</i>	186 C.
Roger Sherman Baldwin	<i>New York City</i>	114 College st.
Ulysses Simpson Grant Bassett	<i>New Haven, Conn.</i>	427 Temple st.
George Ezra Batcheller	<i>New York City</i>	126 High st.
William Langdon Beadleston	<i>New York City</i>	217 York st.
Willoughby Pierce Beam	<i>Buffalo, N. Y.</i>	1193 Chapel st.
Anson McCook Beard	<i>Poughkeepsie, N. Y.</i>	226 York st.
Samuel Fayerweather Beardsley	<i>Bridgeport, Conn.</i>	165 York st.
Edward William Beattie, Jr.	<i>Helena, Mont.</i>	333 Crown st.
Julian Cone Bingham	<i>Northampton, Mass.</i>	95 N. M.
Matthew Sterling Borden	<i>New York City</i>	133 College st.
Sidney Cecil Borg	<i>New York City</i>	1076 Chapel st.
Walter Stanton Brewster	<i>Chicago, Ill.</i>	215 Crown st.
John Henri Brown	<i>East Granville, Mass.</i>	132 College st.
George Clark Bryant	<i>Ansonia, Conn.</i>	70 Howe st.
Hiram Arthur Bryant	<i>Andover, Mass.</i>	1090 Chapel st.
Edward Taylor Buckingham	<i>Bridgeport, Conn.</i>	Bridgeport.
Mortimer Norton Buckner	<i>New Orleans, La.</i>	250 York st.
George Lamb Buist, Jr.	<i>Charleston, S. C.</i>	157 York st.
Arthur Bumstead	<i>Atlanta, Ga.</i>	93 N. M.
Frederick William Burge	<i>Brooklyn, N. Y.</i>	7 Library st.
Ralph Houghton Burns	<i>LeMars, Iowa</i>	40 S. M.
George Eli Butler	<i>New Haven, Conn.</i>	547 Howard av.
Frank Seiler Butterworth	<i>Washington, D. C.</i>	114 High st.
Benjamin Stickney Cable	<i>Chicago, Ill.</i>	176 F.
Gustaf Birger Carlson	<i>Higganum, Conn.</i>	42 S. M.
Arthur Fuller Carpenter	<i>Rome, N. Y.</i>	311 York st.
William Carson	<i>Chillicothe, O.</i>	299 George st.
Walter Frederick Carter	<i>Brooklyn, N. Y.</i>	114 High st.
George Peabody Chandler	<i>Germantown, Pa.</i>	142 F.
Douglas Charnley	<i>Chicago, Ill.</i>	254 Crown st.
Gordon Baldwin Chase	<i>Lyndon, Vt.</i>	20 S.
Charles Bolmar Cheyney	<i>Washington, D. C.</i>	103 Park st.
Arthur Boughton Chivers	<i>Buffalo, N. Y.</i>	270 L.

Earl Douglas Church	Rockville, Conn.	1090 Chapel st.
Ulysses Grant Church	Chaplin, Conn.	42 S. M.
Alexander Ray Clark	Cincinnati, O.	231 York st.
Clement George Clarke	Manhattan, Kansas	345 Elm st.
Charles Frederic Clemons	Manchester, Vt.	107 N.
Clarence Edward Clough	Wilmot Flat, N. H.	107 Dwight st.
Lynn Morton Colburn	Ashtabula, O.	94 N. M.
Leonard Atwood Comstock	Cooperstown, N. Y.	373 Crown st.
Mortimer Smith Comstock	Bridgeport, Conn.	584 Chapel st.
Theodore Edwin Connell	Scranton, Pa.	1079 Chapel st.
Clifford Semple Cook	Cincinnati, O.	16 S.
Walter Evans Cooke	Paterson, N. J.	254 York st.
James Earnest Cooper	New Britain, Conn.	219 York st.
William Maltby Copp	New York City	1138 Chapel st.
Parker Corning	Albany, N. Y.	223 York st.
Thomas Bigelow Cowen	New York City	44 Elm st.
Abraham Beekman Cox, Jr.	Cherry Valley, N. Y.	121 Elm st.
Percy Waldron Crane	New York City	121 York st.
George Everett Darling	Port Jefferson, N. Y.	8 University pl.
Samuel Boyd Darling	Somerville, Mass.	276 Crown st.
John Coleridge Darrow	Mohegan, N. Y.	332 Temple st.
John Havens Davenport	Stamford, Conn.	159 Elm st.
Benjamin Davis	Chicago, Ill.	283 Crown st.
Sherman Day	New York City	1204 Chapel st.
Thomas McElrath Debevoise	New York City	134 College st.
William Adams Delano	Philadelphia, Pa.	121 York st.
William Lester Dench	Bridgeport, Conn.	584 Chapel st.
Lindsay Denison	Washington, D. C.	65 Grove st.
Lamont Dominick	New York City	9 Library st.
James Avery Draper, Jr.	Wilmington, Del.	114 High st.
Henry Peck Driggs	Waterbury, Conn.	254 Crown st.
John Joseph Dunn	New Haven, Conn.	921 Grand av.
Benjamin Harrison Dwight	Poughkeepsie, N. Y.	363 Elm st.
Thomas Dyer	Chicago, Ill.	170 York st.
William Spencer Eakin	New London, Conn.	99 Wall st.
Stillman Witt Eells	Cleveland, O.	157 York st.
Arthur Hibbert Eggleston	New London, Conn.	39 Dwight st.
John Elliott	Martinsville, N. J.	332 York st.
Elmore Franklin Elmore	Troy, N. Y.	233 York st.
Philip Saffery Evans, Jr.	New Haven, Conn.	32 Trumbull st.
Samuel Alexander Everitt	Scarsdale, N. Y.	96 N. M.
Henry Farnam	New Haven, Conn.	37 Hillhouse av.
William Henry Ferris	New Haven, Conn.	87 Eaton st.
Edward Ridley Finch	Plainfield, N. J.	954 Chapel st.

Sherman Knevals Foote	<i>New York City</i>	82 Wall st.
William Kingsley Fowler	<i>Brooklyn, N. Y.</i>	250 York st.
Frederick Steinman Franklin	<i>Lancaster, Pa.</i>	170 York st.
Frederic Ruthven Galacar	<i>Hartford, Conn.</i>	177 F.
Charles Sumner Gale	<i>Minneapolis, Minn.</i>	236 Crown st.
George Jay Gibson, Jr.	<i>Peoria, Ill.</i>	N. H. Hotel
Ransom Fay Gillis	<i>Detroit, Mich.</i>	138 F.
Elwin Hayes Gleason	<i>Colorado Springs, Col.</i>	26 Howe st.
John Edward Good	<i>Denver, Col.</i>	363 Elm st.
Silas Hurlbut Goodenough	<i>Winchester, Conn.</i>	17 S.
Fred Chapman Goodwin	<i>Biddeford, Me.</i>	64 Whalley av.
George Fauvel Gouraud	<i>London, England</i>	254 York st.
George Hinman Gurnee	<i>Nyack, N. Y.</i>	159 York st.
Clarence Wells Halbert	<i>St. Paul, Minn.</i>	332 Temple st.
Hugh Tyler Halbert	<i>St. Paul, Minn.</i>	332 Temple st.
Laurens Hamilton	<i>New York City</i>	113 Wall st.
Fred Holcomb Hamlin	<i>East Bloomfield, N. Y.</i>	62 Lake pl.
George Wright Hamlin	<i>Canandaigua, N. Y.</i>	62 Lake pl.
Charles Newberry Hammond	<i>Sparrow Bush, N. Y.</i>	242 York st.
Charles Willing Hare	<i>Philadelphia, Pa.</i>	242 York st.
Henry Wilson Harris	<i>East Orange, N. J.</i>	A.
Francis Burton Harrison	<i>New York City</i>	1204 Chapel st.
William Wilson Heaton	<i>New York City</i>	199 York st.
John Heermans	<i>Corning, N. Y.</i>	214 Crown st.
Yandell Henderson	<i>Louisville, Ky.</i>	62 Trumbull st.
Burton Jesse Hendrick	<i>New Haven, Conn.</i>	169 Spring st.
Louis Hewlett	<i>Cold Spring Harbor, N. Y.</i>	363 Elm st.
Shirley Tredway High	<i>Chicago, Ill.</i>	242 York st.
Charles Lyon Hill	<i>Greenfield Hill, Conn.</i>	414 Crown st.
Edwin Stark Hine	<i>New Britain, Conn.</i>	723 Elm st.
Frank Augustus Hinkey	<i>Tonawanda, N. Y.</i>	31 High st.
Everett Winslow Hobart	<i>Cincinnati, O.</i>	299 George st.
Clark Holbrook	<i>New York City</i>	135 College st.
Louis Halsey Holden	<i>Newark, N. J.</i>	84 Wall st.
Joseph Bernard Hone	<i>Rochester, N. Y.</i>	270 Crown st.
James Fisk Hooker	<i>Brattleboro, Vt.</i>	1187 Chapel st.
Frank Winfield Hubby, Jr.	<i>Cleveland, O.</i>	1319 Chapel st.
John Louis Hunt	<i>Hopewell, N. J.</i>	332 York st.
John Llewellyn Hutchins	<i>Andover, Me.</i>	99 Davenport av.
Charles Cheney Hyde	<i>Chicago, Ill.</i>	307 George st.
Henry Neal Hyde	<i>Syracuse, N. Y.</i>	242 York st.
Frederic Ives	<i>New Haven, Conn.</i>	478 Orange st.
George Jacobus	<i>Springfield, Mass.</i>	64 Whalley av.
Frederick Pitkin James	<i>Lockport, N. Y.</i>	250 York st.

Edward Clinton Jones	<i>New Haven, Conn.</i>	84 William st.
Isaac M. Jordan, Jr.	<i>Cincinnati, O.</i>	16 S.
Thomas Andrew Keck	<i>East Orange, N. J.</i>	9 Library st.
George Dwight Kellogg	<i>St. Louis, Mo.</i>	108 N.
Alfred Harris Kelly	<i>Louisville, Ky.</i>	82 Broadway
Paul Kennaday	<i>Montclair, N. J.</i>	310 Elm st.
Norton Adams Kent	<i>Fordham, N. Y.</i>	222 Crown st.
Max Howard Kershow	<i>Philadelphia, Pa.</i>	242 York st.
William Keyser, Jr.	<i>Baltimore, Md.</i>	119 Park st.
Charles Adams Kimball	<i>Littleton, Mass.</i>	333 Crown st.
Frederick Augustus King	<i>Providence, R. I.</i>	121 York st.
Charles Kingsley, Jr.	<i>Paris, France</i>	263 Crown st.
Troy Sylvanus Kinney	<i>Chicago, Ill.</i>	231 York st.
Louis Williams Ladd	<i>New Haven, Conn.</i>	204 Prospect st.
Franklin Lawrence Lee	<i>New York City</i>	113 Wall st.
Howard Barnes Lee	<i>Louisville, Ky.</i>	263 Orange st.
John Aloysius Lee	<i>New Britain, Conn.</i>	928 Chapel st.
Albert David Levi	<i>Eric, Pa.</i>	423 Temple st.
George Augustus Lewis	<i>Hudson, N. Y.</i>	96 N. M.
Ernest Abraham Limburger	<i>New York City</i>	233 York st.
Herbert Richard Limburger	<i>New York City</i>	233 York st.
Edwin Carlyle Lobenstine	<i>New York City</i>	219 York st.
John Lewis Lockwood, Jr.	<i>New York City</i>	200 York st.
Thomas Brown Lockwood	<i>Buffalo, N. Y.</i>	26 High st.
John McClintock Longacre	<i>Philadelphia, Pa.</i>	142 F.
Lloyd Lowndes, Jr.	<i>Cumberland, Md.</i>	90 High st.
Richard Tasker Lowndes	<i>Cumberland, Md.</i>	90 High st.
David Brainard Lyman, Jr.	<i>LaGrange, Ill.</i>	1079 Chapel st.
Edward Branch Lyman	<i>Greenfield, Mass.</i>	8 University pl.
William Grant McCann	<i>Philadelphia, Pa.</i>	79 N. M.
William Adams McFadden	<i>Cincinnati, O.</i>	109 Elm st.
John MacGregor	<i>Akron, O.</i>	134 College st.
Lanier McKee	<i>Washington, D. C.</i>	159 York st.
John Dun McKell	<i>Chillicothe, O.</i>	1010 Chapel st.
Guy Richards McLane	<i>New York City</i>	223 D.
Russell Almeron Marks	<i>Sioux City, Iowa</i>	57 Lake pl.
Charles Mason Martin	<i>Norwich, N. Y.</i>	159 York st.
Roswell Bertram Mason	<i>Chicago, Ill.</i>	176 F.
Benjamin Minor Massey	<i>Springfield, Mo.</i>	1157 Chapel st.
David Bartine Melick	<i>Gladstone, N. J.</i>	96 N. M.
Henry Giles Miller, Jr.	<i>Chicago, Ill.</i>	192 York st.
David Diamond Mitchell	<i>Wichita, Kansas</i>	379 Crown st.
John Grant Mitchell, Jr.	<i>Columbus, O.</i>	159 York st.
Phelps Montgomery	<i>Portland, Oregon</i>	99 Wall st.

John King Moore	<i>Hartford, Conn.</i>	281 L.
William Arthur Moore	<i>Watertown, N. Y.</i>	11 Park st.
Charles Gould Morris	<i>New Haven, Conn.</i>	230 Prospect st.
Samuel Isaac Motter	<i>St. Joseph, Mo.</i>	65 Grove st.
John Burnet Nash	<i>Syracuse, N. Y.</i>	242 York st.
Robert Cecil Nesbit	<i>New York City</i>	170 York st.
Julian St. John Nolan	<i>Chicago, Ill.</i>	132 Wall st.
Joseph Ripley Noyes	<i>Stamford, Conn.</i>	159 York st.
Herbert Chester Nutting	<i>Mount Vernon, N. Y.</i>	97 Olive st.
Daniel O'Neill	<i>Pittsburgh, Pa.</i>	168 York st.
Alfred Townsend Osgood	<i>Rochester, N. Y.</i>	270 Crown st.
Ervin Edward Osgood	<i>New Britain, Conn.</i>	108 N.
Roswell Parish, Jr.	<i>Brookline, Mass.</i>	250 York st.
Henry Douglas Parmelee	<i>New Haven, Conn.</i>	140 College st.
Henry Ivison Parsons	<i>New York City</i>	231 D.
William Edward Parsons	<i>Akron, O.</i>	34 Hillhouse av.
Frank Miner Patterson	<i>Albany, N. Y.</i>	14 Whalley av.
William Knapp Payne	<i>Auburn, N. Y.</i>	347 York st.
Rowland Gardiner Paynter	<i>Georgetown, Del.</i>	584 Chapel st.
Augustus Stephen Peabody, 2d	<i>Chicago, Ill.</i>	1076 Chapel st.
Howard Whiting Pease	<i>Thomaston, Conn.</i>	131 Howe st.
Josiah Henry Peck	<i>Bristol, Conn.</i>	281 L.
Tracy Peck, Jr.	<i>New Haven, Conn.</i>	124 High st.
Robert Augustine Peet	<i>Brooklyn, N. Y.</i>	157 York st.
James Herbert Perrin	<i>Lafayette, Ind.</i>	333 Crown st.
George Alexander Phelps	<i>Stamford, Conn.</i>	159 Elm st.
Ziba Bennett Phelps	<i>Wilkes-Barré, Pa.</i>	1204 Chapel st.
Ashley Pond, Jr.	<i>Detroit, Mich.</i>	287 York st.
Frederick Holbrook Rawson	<i>Chicago, Ill.</i>	143 York st.
Charles Howard Remington	<i>Brooklyn, N. Y.</i>	277 Crown st.
William George Reynolds	<i>Watertown, Conn.</i>	343 George st.
James Harris Richards	<i>Stamford, N. Y.</i>	95 N. M.
William Martin Richards	<i>New Haven, Conn.</i>	315 York st.
George Chalmers Richmond	<i>Easthampton, Mass.</i>	97 Olive st.
Andrew Gregg Curtin Sage	<i>Ithaca, N. Y.</i>	155 Elm st.
Henry Williams Sage, 2d	<i>Ithaca, N. Y.</i>	155 Elm st.
Nelson Walling Sayles	<i>Millbury, Mass.</i>	37 Lynwood st.
Harry Sargeant Scarborough	<i>Baltimore, Md.</i>	332 York st.
Alfred Egmont Schermerhorn	<i>New York City</i>	140 Edwards st.
William Herbert Scoville	<i>Stamford, Conn.</i>	109 N.
William Langdon Scoville	<i>Montpelier, Vt.</i>	217 York st.
Arthur Behn Shepley	<i>St. Louis, Mo.</i>	90 High st.
Alburn Edward Skinner	<i>Ottawa, Kansas</i>	117 Greene st.
William Sloane	<i>New York City</i>	223 D.

Edward Dorland Smith	<i>Peru, N. Y.</i>	233 York st.
George Arthur Smith	<i>Winchester, N. H.</i>	39 S. M.
Horace Mann Snyder	<i>Vineland, N. J.</i>	26 Ward st.
Eugene Nathan Solomon	<i>New York City</i>	27 High st.
John Bissell Speer	<i>Pittsburgh, Pa.</i>	231 York st.
Benjamin Ives Spock	<i>New Haven, Conn.</i>	209 Orange st.
William Judd Starkweather, Jr.	<i>New York City</i>	163 York st.
Howard White Starr	<i>New York City</i>	99 Wall st.
Ernest Guy Stevens	<i>Wells, Me.</i>	439 George st.
Thomas Horace Stevenson	<i>Hartwell, O.</i>	107 York st.
William Albert Sumner	<i>Tacoma, Wash.</i>	109 Elm st.
Joseph Rockwell Swan	<i>Stamford, Conn.</i>	65 Grove st.
Wager Swayne, Jr.	<i>New York City</i>	215 York st.
John Gardner Talcott	<i>Talcottville, Conn.</i>	282 L.
John Frelinghuysen Talmage, Jr.	<i>Brooklyn, N. Y.</i>	250 York st.
Emerson Gifford Taylor	<i>Hartford, Conn.</i>	282 L.
Frederick Beach Taylor	<i>South Orange, N. J.</i>	41 S. M.
Harry Knous Taylor	<i>Hartford, Conn.</i>	270 L.
Hartley Wales Thayer	<i>Holbrook, Mass.</i>	66 N. M.
George Herbert Thomas	<i>Providence, R. I.</i>	31 E.
Hermann Thomas	<i>Chicago, Ill.</i>	144 F.
Ford William Thompson	<i>St. Louis, Mo.</i>	99 Wall st.
William DeForest Thomson	<i>New York City</i>	271 L.
Samuel Thorne, Jr.	<i>New York City</i>	38 Elm st.
Samuel Brinckerhoff Thorne	<i>New York City</i>	263 Crown st.
Charles Storey Thurston	<i>Whitinsville, Mass.</i>	1 Whalley av.
Thomas Andrew Tracy	<i>Bristol, Conn.</i>	189 C.
George Frederick Truesdell	<i>Washington, D. C.</i>	227 Crown st.
Ralph DeForest Tucker	<i>Monson, Mass.</i>	79 N. M.
Roger Walker Tuttle	<i>New Haven, Conn.</i>	191 Whalley av.
Fred Sylvester Tyler	<i>Hammondon, N. J.</i>	94 N. M.
Samuel Tyler	<i>Newton Highlands, Mass.</i>	177 F.
Selden Williams Tyler	<i>Tylerville, Conn.</i>	66 N. M.
Cornelius Vanderbilt, Jr.	<i>New York City</i>	231 D.
George Knight Budd Wade	<i>St. Louis, Mo.</i>	114 High st.
Fred Uri Wadhams	<i>Torrington, Conn.</i>	101 Lake pl.
James Colby Walworth	<i>Newton, Mass.</i>	120 College st.
Allen Wardwell	<i>New York City</i>	38 Elm st.
Spencer Kellogg Warnick	<i>Amsterdam, N. Y.</i>	126 High st.
George Howard Warrington	<i>Cincinnati, O.</i>	40 Elm st.
John Roach Wathen	<i>Louisville, Ky.</i>	82 Broadway
Harry Dauchy West	<i>Plainfield, N. J.</i>	219 York st.
Charles Augustus Wheeler	<i>Trumbull, Conn.</i>	312 Elm st.
William Mills Wheeler	<i>Stratford, Conn.</i>	Stratford

Roger Widdrington Whinfield	<i>Fond du Lac, Wisc.</i>	373 Crown st.
Raymond Sandford White	<i>New York City</i>	252 York st.
George Parker Wiley	<i>Charleston, Ill.</i>	283 Crown st.
Robert Wilkinson	<i>Poughkeepsie, N. Y.</i>	93 N. M.
John Reed Williams	<i>Chicago, Ill.</i>	132 Wall st.
Herbert Witherspoon	<i>New Haven, Conn.</i>	38 Elm st.

FRESHMEN, 268

SUMMARY

SENIORS	180
JUNIORS	195
SOPHOMORES	245
FRESHMEN	268
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SHEFFIELD SCIENTIFIC SCHOOL

GRADUATE STUDENTS

Arthur Bronson Adams, PH.B. } Yale University 1885	<i>New Haven, Conn.</i>	170 St. John st.
Arthur Chambers Alexander, PH.B. } Yale University 1889	<i>Honolulu, H. I.</i>	145 College st.
George L. Amerman, B.A. } Yale University 1890	<i>New Haven, Conn.</i>	137 Wall st.
Frederic Elijah Beach, PH.B. } Yale University 1883	<i>New Haven, Conn.</i>	44 Lyon st.
Arthur Eli Booth, PH.B. } Yale University 1891	<i>Peace Dale, R. I.</i>	23 Lynwood st.
William Lewis Bradley, B.A. } Yale University 1891	<i>New Haven, Conn.</i>	139 Chestnut st.
Sterling Haight Bunnell, PH.B. } Yale University 1891	<i>Stratford, Conn.</i>	A.
Edgar William Danner, B.A. } Yale University 1891	<i>Paterson, N. J.</i>	1161 Chapel st.
Matthew Griswold, Jr., PH.B. } Yale University 1888	<i>Erie, Pa.</i>	A.
Theodore Stuart Hart, B.A. } Yale University 1891	<i>Farmington, Conn.</i>	63 Grove st.
William Walter Heffelfinger, PH.B. } Yale University 1891	<i>Minneapolis, Minn.</i>	1024 Chapel st.
Vertner Kenerson, B.A. } Yale University 1891	<i>New Haven, Conn.</i>	1018 Chapel st.
Edwin Hoyt Lockwood, PH.B. } Yale University 1888	<i>New Canaan, Conn.</i>	145 College st.
Daniel Alden Loring, Jr., PH.B. } Yale University 1891	<i>New York City</i>	227 Crown st.
William Dwight Marsh, B.A. } Amherst College 1888	<i>Amherst, Mass.</i>	373 Crown st.
Frank Sherman Meara, B.A. } Yale University 1890	<i>Cottage City, Mass.</i>	70 N. M.
Lafayette Benedict Mendel, B.A. } Yale University 1891	<i>Delhi, N. Y.</i>	22 Trumbull st.
Edwin Morrison, PH.B. } Yale University 1888	<i>Cincinnati, O.</i>	A.
John P. Munson, B.S. } Univ. of Wisconsin 1887	<i>Shabbona, Ill.</i>	7 Fair st.
George Nathaniel Prentiss, PH.B. } Yale University 1891	<i>Watertown, Wisc.</i>	126 Wall st.

Frank Russell Rich, PH.B. } Yale University 1890	<i>New Haven, Conn.</i>	59 Grove st.
Milton Holley Robbins, PH.B. } Yale University 1891	<i>Lakeville, Conn.</i>	A.
Ennis Newton Searles, PH.B. } Yale University 1891	<i>New Haven, Conn.</i>	279 Sherman av.
George Pratt Starkweather, PH.B. } Yale University 1891	<i>New Haven, Conn.</i>	N. H. Hospital
John Clayton Tracy, PH.B. } Yale University 1890	<i>Fair Haven, Conn.</i>	26 N. S. H.
Henry Lord Wheeler, PH.B. } Yale University 1890	<i>Chicago, Ill.</i>	126 Wall st.

GRADUATE STUDENTS, 26

SENIOR CLASS

Francis Mulliken Adams	<i>New Haven, Conn.</i>	459 Prospect st.
Wallace McKinney Alexander	<i>Oakland, Cal.</i>	206 Crown st.
Herbert Burr Atha	<i>Newark, N. J.</i>	101 W.
Fred Murray Ayres	<i>Indianapolis, Ind.</i>	138 College st.
Walter Stanton Bailey	<i>Brooklyn, N. Y.</i>	1002 Chapel st.
William Atwater Baldwin	<i>Lahaina, Maui, H. I.</i>	206 Crown st.
Francis Edward Barbour	<i>Montreal, Canada</i>	226 Crown st.
Frank Harrison Barbour	<i>Detroit, Mich.</i>	43 College st.
Joseph Bulkley Barnes	<i>New York City</i>	124 Wall st.
William Nicholas Beach	<i>Orange, N. J.</i>	42 Elm st.
Charles Edmund Beeson	<i>Uniontown, Pa.</i>	131 Grove st.
Bertram Borden Boltwood	<i>Castleton, N. Y.</i>	311 York st.
Sherman Hoyt Bouton	<i>Chicago, Ill.</i>	92 York sq.
Waldo Clayton Briggs	<i>New Haven, Conn.</i>	18 Eld st.
William Henry Bronson	<i>Rye, N. Y.</i>	109 High st.
Otis Gridley Bunnell	<i>Burlington, Conn.</i>	58 Lyon st.
Lucius Lucine Button	<i>Norwich, Conn.</i>	157 York st.
Walter Lord Caldwell	<i>Ongar, Essex, England</i>	43 College st.
George Flavins Campbell	<i>New Haven, Conn.</i>	49 Dixwell av.
Willard Rowe Carrol	<i>Yalesville, Conn.</i>	Yalesville
Walter Ellsworth Coe	<i>Meriden, Conn.</i>	297 York st.
Wesley Roswell Coe	<i>Middlefield, Conn.</i>	242 York st.
Harry Cone Collins	<i>Springfield, Mass.</i>	395 Temple st.
Egbert Wheeler Cornwall	<i>Patterson, N. Y.</i>	397 Crown st.
Wilbur Fisk Day, Jr.	<i>New Haven, Conn.</i>	131 Grove st.

Thomas Denny, Jr.	<i>New York City</i>	43 College st.
Duncan Stuart Ellsworth	<i>Penn Yan, N. Y.</i>	46 College st.
Samuel Fray	<i>Bridgeport, Conn.</i>	57 Lake pl.
Claude Gignoux	<i>Monroe, N. Y.</i>	285 York st.
Simon Phillip Goodhart	<i>New Haven, Conn.</i>	44 Elm st.
George Arthur Gordon	<i>Savannah, Ga.</i>	43 College st.
J. Avery Gould	<i>Aurora, N. Y.</i>	131 Grove st.
Joseph Sutton Green	<i>Raynham, Mass.</i>	405 Temple st.
Harry Priest Greene	<i>Amsterdam, N. Y.</i>	293 York st.
Thomas Strong Griffing	<i>Setauket, N. Y.</i>	393 Temple st.
David Cullen Griggs	<i>Waterbury, Conn.</i>	248 York st.
Herbert William Hamlin	<i>Chicago, Ill.</i>	131 Grove st.
John Henry Hammond, Jr.	<i>St. Paul, Minn.</i>	43 College st.
Josiah Harnar	<i>Philadelphia, Pa.</i>	395 Temple st.
Norman Dwight Harris	<i>Chicago, Ill.</i>	92 York sq.
Samuel Atkinson Harsh	<i>Denver, Col.</i>	150 Grove st.
Frank Lockwood Hatch	<i>Springfield, Ill.</i>	1002 Chapel st.
Thomas Simmons Homans	<i>Springfield, Mass.</i>	395 Temple st.
Henry Dwight Hunt	<i>Columbia, Conn.</i>	81 Wall st.
Gustave Erwin Huttelmaier	<i>Knoxville, Tenn.</i>	57 Prospect st.
Harry Helmer Jackson	<i>Chicago, Ill.</i>	126 Wall st.
Hudson Taylor Jackson	<i>Allegheny City, Pa.</i>	88 Wall st.
Theodore Caldwell Janeway	<i>New York City</i>	137 Wall st.
Edward Wilson Johnstone	<i>Connellsville, Pa.</i>	150 Grove st.
Walter Woodruff Keith	<i>Chicago, Ill.</i>	131 Grove st.
James Hugh Kimball	<i>Chicago, Ill.</i>	206 Crown st.
James Moffatt Knapp	<i>Auburn, N. Y.</i>	65 w.
Charles Thomas Kountze	<i>Omaha, Nebr.</i>	86 Wall st.
Henry Edgar Lane	<i>Killingworth, Conn.</i>	81 Wall st.
Walter William Law, Jr.	<i>Yonkers, N. Y.</i>	1002 Chapel st.
Joseph Lesinsky	<i>New York City</i>	393 Temple st.
Isaac Chauncey McKeever	<i>New York City</i>	43 College st.
Edward McVickar	<i>Collinsville, N. Y.</i>	42 Elm st.
James Stephen Maher	<i>New Haven, Conn.</i>	203 East st.
Denis James Maloney	<i>New Haven, Conn.</i>	34 Ferry st.
Frank Edwin Mandel	<i>Chicago, Ill.</i>	126 Wall st.
Richard Fisher Manning	<i>Brooklyn, N. Y.</i>	88 Wall st.
Robert Valentine Massey	<i>Dover, Del.</i>	42 Elm st.
Henry Chauncey Matthews	<i>New York City</i>	206 Crown st.
Gardner Meeker	<i>Newark, N. J.</i>	1180 Chapel st.
Charles Wilson Merrels	<i>New Haven, Conn.</i>	24 Pearl st.
Reuben Miller, Jr.	<i>Pittsburgh, Pa.</i>	7 Library st.
Fred Mold	<i>Blossburg, Pa.</i>	138 St. John st.
Theophilus Nelson	<i>Bridgeport, Conn.</i>	57 Lake pl.

Edward Sherman Nettleton	<i>New Haven, Conn.</i>	642 Elm st.
Charles Henry Nichols	<i>Branford, Conn.</i>	Branford
Richard Francis Pearce	<i>Denver, Col.</i>	43 College st.
Montague Elias Perkins	<i>Bristol, Conn.</i>	295 York st.
Miles Albion Pond	<i>Torrington, Conn.</i>	57 Grove st.
John Keeler Punderford	<i>New Haven, Conn.</i>	74 Howe st.
Harry Ralston Quinn	<i>Milton, Vt.</i>	101 Greene st.
Charles Cornwell Ramsdell	<i>New Haven, Conn.</i>	104 Wall st.
George Wolf Reily, Jr.	<i>Harrisburg, Pa.</i>	131 Grove st.
William Reynolds Ricketts	<i>Wilkes-Barre, Pa.</i>	36 Elm st.
Albert B. Rogowski	<i>New Haven, Conn.</i>	318 Crown st.
William Parker Sargent	<i>Chicago, Ill.</i>	137 Wall st.
Charles Howard Saunders	<i>Hartford, Conn.</i>	145 College st.
Albert Leslie Sessions	<i>Bristol, Conn.</i>	248 York st.
Edward Helfenstein Simmons	<i>St. Louis, Mo.</i>	131 Grove st.
Arthur Jarvis Slade	<i>New York City</i>	248 York st.
Ralph William Sprague	<i>Chicago, Ill.</i>	36 Elm st.
Alix Welch Stanley	<i>New Britain, Conn.</i>	42 Elm st.
Paul Sterling	<i>Bridgeport, Conn.</i>	206 Crown st.
Harry Taylor Stoddart	<i>Wilkes-Barre, Pa.</i>	38 Lynwood st.
James Graham Stokes	<i>New York City</i>	43 College st.
Worthington Smith Telford	<i>St. Albans, Vt.</i>	389 Temple st.
Isaac Biddle Thomas	<i>West Chester, Pa.</i>	206 Crown st.
Charles Stewart Towle	<i>New York City</i>	131 Grove st.
Percy Talbot Walden	<i>Brooklyn, N. Y.</i>	248 York st.
Walter Frederick Waring	<i>Savannah, Ga.</i>	131 Grove st.
Lauren Kellogg Warnick	<i>Amsterdam, N. Y.</i>	248 York st.
Isaac Weil	<i>San Francisco, Cal.</i>	126 Wall st.
Charles Weiser	<i>York, Pa.</i>	248 York st.
Alfred Pelton Wheeler	<i>Meriden, Conn.</i>	22 Lynwood st.
Edward Lancaster Whittemore	<i>San Diego, Cal.</i>	213 Wooster st.
Charles Mallory Williams	<i>Brooklyn, N. Y.</i>	152 Grove st.
Philip Keeney Williams	<i>Hartford, Conn.</i>	113 Wall st.
John Baker Winstandley	<i>Bedford, Ind.</i>	88 Wall st.
Walter Abbott Wood, Jr.	<i>Hoosac Falls, N. Y.</i>	88 Wall st.
William Bassett Woodward	<i>Denver, Col.</i>	131 Grove st.
Edward Vanuxem Wurts	<i>Bridgeton, N. J.</i>	147 Bradley st.
Vincent Jay Youmans	<i>Mount Vernon, N. Y.</i>	405 Temple st.
Clarence Clark Zantzing	<i>Philadelphia, Pa.</i>	88 Wall st.

JUNIOR CLASS

Roger Cook Adams	<i>New Haven, Conn.</i>	459 Prospect st.
Frank Alvan Alexander	<i>Oakland, Cal.</i>	19 Wall st.
Mortimer Hammond Alling	<i>New Haven, Conn.</i>	238 Orchard st.
William Marvin Armstrong	<i>Brooklyn, N. Y.</i>	137 College st.
James Howard Bailey	<i>Brooklyn, N. Y.</i>	137 College st.
Anson Baldwin	<i>Yonkers, N. Y.</i>	42 Elm st.
Joseph Henry Bamberg	<i>New Haven, Conn.</i>	75 Nicoll st.
Donn Barber	<i>New York City</i>	86 Wall st.
Morris Hugus Beall	<i>Omaha, Nebr.</i>	1090 Chapel st.
James Beach Beckett	<i>Western Springs, Ill.</i>	36 Elm st.
Charles Pool Belden	<i>Chicago, Ill.</i>	154 Grove st.
William Bart Berger	<i>Denver, Col.</i>	86 Wall st.
Walter Spencer Billard	<i>Meriden, Conn.</i>	297 York st.
Oliver Chandler Billings	<i>New York City</i>	131 Grove st.
Orland Rossini Blair	<i>New Britain, Conn.</i>	285 York st.
Laurence Thornton Bliss	<i>New York City</i>	120 High st.
Harry Lattimer Bloodgood	<i>New York City</i>	120 High st.
Joseph Judson Brooks, Jr.	<i>Pittsburgh, Pa.</i>	86 Wall st.
Walter Frank Brown	<i>New London, Conn.</i>	226 Crown st.
Nelson Beardsley Burr	<i>Auburn, N. Y.</i>	43 College st.
Alexander James Campbell	<i>San Salito, Cal.</i>	127 College st.
James Edward F. Campbell	<i>New York City</i>	159 Elm st.
Sheldon Cary	<i>Cleveland, O.</i>	130 Wall st.
John Davenport Cheney	<i>So. Manchester, Conn.</i>	43 College st.
George Clifford Clark	<i>Terryville, Conn.</i>	22 Lynwood st.
Herman Daggett Clark, Jr.	<i>New Haven, Conn.</i>	13 Trumbull st.
John Williams Coe	<i>Meriden, Conn.</i>	297 York st.
William Garrard Comly	<i>Indianapolis, Ind.</i>	88 Wall st.
Henry Failing Conner	<i>Portland, Oregon</i>	152 Grove st.
Lester Wiggins Day	<i>Louisville, Ky.</i>	248 York st.
Hughes Dayton	<i>Southport, Conn.</i>	84 Wall st.
James Laird deVou	<i>Wilmington, Del.</i>	133 College st.
Leroy Church Dupee	<i>Chicago, Ill.</i>	299 York st.
Ernest Bradford Ellsworth	<i>Hartford, Conn.</i>	397 Temple st.
Albert DeWolf Erskine	<i>Chicago, Ill.</i>	131 Grove st.
Jason Evans	<i>Morristown, N. J.</i>	131 Grove st.
Mark Ewing	<i>St. Louis, Mo.</i>	124 Wall st.
Joseph Brooks Fair	<i>Chicago, Ill.</i>	1010 Chapel st.
Howard Judson Fish	<i>Pasadena, Cal.</i>	19 Wall st.
Marc Milton Fishel	<i>New York City</i>	159 Elm st.
Frederick Luther Ford	<i>North Branford, Conn.</i>	37 Lynwood st.
George Congdon Fouse	<i>Washington, D. C.</i>	411 Temple st.

Edward Levi Fox	<i>New Haven, Conn.</i>	117 Park st.
Arthur Graham Freeland	<i>New York City</i>	1245 Chapel st.
Richard Garlick	<i>Youngstown, O.</i>	159 Elm st.
Albert Dewitt Gibbs	<i>Chicago, Ill.</i>	31 Trumbull st.
Gaston Gunter	<i>Montgomery, Ala.</i>	285 York st.
Robert Ezra Hall	<i>Hartford, Conn.</i>	124 Wall st.
Ogden Haggerty Hammond	<i>St. Paul, Minn.</i>	43 College st.
Samuel Mowbry Hammond, Jr.	<i>Torrington, Conn.</i>	53 Prospect st.
Thomas King Hanna, Jr.	<i>Kansas City, Mo.</i>	88 Wall st.
Howard Joseph Haslehurst	<i>Brooklyn, N. Y.</i>	86 Wall st.
Arthur Stephen Hawley	<i>New Haven, Conn.</i>	20 Gill st.
Charles Borland Hill	<i>Montgomery, N. Y.</i>	248 York st.
Louis Warren Hill	<i>St. Paul, Minn.</i>	1076 Chapel st.
Frank Elijah Hine	<i>Milford, Conn.</i>	53 Prospect st.
Charles Wilcox Hitchcock	<i>Cleveland, O.</i>	1245 Chapel st.
Sidney Stone Holt	<i>New Haven, Conn.</i>	71 Dwight st.
William Thomas Hildrup Howe	<i>Killingworth, Conn.</i>	53 Prospect st.
Hampton Howell	<i>Brooklyn, N. Y.</i>	86 Wall st.
Phelps Buttolph Hoyt	<i>Chicago, Ill.</i>	131 Grove st.
William Churchill Hungerford	<i>New Britain, Conn.</i>	248 York st.
George Albert Hutchinson	<i>Chicago, Ill.</i>	248 York st.
Charles Anthony Ingersoll	<i>New Haven, Conn.</i>	24 Elm st.
Harry Churchill January	<i>St. Louis, Mo.</i>	131 Grove st.
William Rankin Johnston	<i>Shippensburg, Pa.</i>	53 Prospect st.
Charles Oscar Kalman	<i>St. Paul, Minn.</i>	124 Wall st.
John Hume Kedzie, Jr.	<i>Evanston, Ill.</i>	131 Grove st.
William Lansing, Jr.	<i>Albany, N. Y.</i>	90 Wall st.
Elmer Arthur Lawbaugh	<i>Opechee, Mich.</i>	15 E.
Burton Leonard Lawton	<i>Meriden, Conn.</i>	Meriden
Louis Cicero Lawton	<i>Brooklyn, Conn.</i>	55 Prospect st.
Harry Blakeman Lewis	<i>New Haven, Conn.</i>	438 George st.
Thomas Henry Lewis	<i>Evanston, Ill.</i>	132 College st.
Frank Allen Little	<i>Meriden, Conn.</i>	Meriden
Samuel Whiter McCaulley	<i>Wilmington, Del.</i>	397 Temple st.
Vance Criswell McCormick	<i>Harrisburg, Pa.</i>	109 Wall st.
Clifford Whiting McGee	<i>Plainfield, N. J.</i>	43 College st.
William McKell	<i>Chillicothe, O.</i>	1010 Chapel st.
Charles Eugene McLane	<i>Baltimore, Md.</i>	130 Wall st.
Fred Bogart McMullen	<i>Pictou, Ontario, Can.</i>	419 Temple st.
Herbert Yarwood McMullen	<i>Pictou, Ontario, Can.</i>	419 Temple st.
Leonard Mandel	<i>Chicago, Ill.</i>	124 Wall st.
Edward Anthony Mitchell	<i>New Haven, Conn.</i>	79 Trumbull st.
Lysander Royster Moore, Jr.	<i>Kansas City, Mo.</i>	409 Temple st.
Henry Hotchkiss Murray	<i>Viola, Del.</i>	54 Garden st.

Oliver Peter Nicola	Cleveland, O.	130 Wall st.
Fred Henry Osborne	New Haven, Conn.	223 Bradley st.
Edward Harrison Post	Wilkes-Barre, Pa.	36 Elm st.
Herbert Leroy Potter	North Guilford, Conn.	293 York st.
Joseph Hyde Pratt	West Hartford, Conn.	397 Temple st.
Wiley Byrd Raymond	Wyoming, O.	248 York st.
Harry Parks Ritchie	St. Paul, Minn.	114 High st.
Allan Appleton Robbins	New York City	109 Wall st.
Ralph Stewart Robinson	Colchester, Conn.	255 Ferry st.
DeForest Lee Selover	Cleveland, O.	36 Elm st.
Edward Olin Smith	Springfield, Mass.	109 Elm st.
Lewis Motter Smith	St. Joseph, Mo.	131 Grove st.
Frederick Clarence Spencer	Old Saybrook, Conn.	411 Temple st.
Alfred Hull Stevens	Clinton, Conn.	117 Park st.
William Petheric Stevens	Detroit, Mich.	1245 Chapel st.
Raymond French Stoddard	Milford, Conn.	137 Wall st.
Charles Bradley Stoughton, Jr.	New Haven, Conn.	339 Prospect st.
Frederick Enos Stow	Plantsville, Conn.	36 Elm st.
Richard Pearson Strong	Atlanta, Ga.	411 Temple st.
Richard Schoonmaker Suydam	Allegheny City, Pa.	42 Elm st.
William Buffum Thompson	Pasadena, Cal.	19 Wall st.
Walter Henry Tilton	New Haven, Conn.	235 Dixwell av.
John Stewart Tritle	Prescott, Arizona	90 Wall st.
Albert Leverett VanHuyck	Lee, Mass.	36 Elm st.
McLane VanIngen	New York City	131 Grove st.
John Henry Vought	Buffalo, N. Y.	131 College st.
Paul Wentworth Webster	Cleveland, O.	42 Elm st.
Frederick Brown Wells	Minneapolis, Minn.	74 Wall st.
Robert William Whitehead	Wakefield, Mass.	299 York st.
Howard Dudley Wiggins	Indianapolis, Ind.	133 College st.
Ira Edward Wight	New Orleans, La.	131 Grove st.
Wallace Charles Winter	St. Paul, Minn.	131 Grove st.
Ernest Strong Witbeck	Detroit, Mich.	397 Temple st.
		JUNIORS, 117

FRESHMAN CLASS.

Ralph Albree	Allegheny, Pa.	150 Grove st.
Frank Willson Aldrich	McLean, Ill.	393 Temple st.
Edward Warner Allen	Brooklyn, N. Y.	57 Prospect st.
William Bradford Allen	New Haven, Conn.	284 Orange st.
Richard Clough Anderson	Cincinnati, O.	389 Temple st.
John Lorillard Arden	Garrison, N. Y.	421 Temple st.

George Armstrong	<i>Brooklyn, N. Y.</i>	439 George st.
Orville Elias Babcock	<i>Chicago, Ill.</i>	405 Temple st.
Leverett Seymour Baldwin	<i>Jacksonville, Fla.</i>	219 York st.
James Arthur Ballentine	<i>Boise City, Idaho</i>	111 High st.
William Hendry Barker	<i>Hartford, Conn.</i>	318 Orange st.
Harry Ives Bartholomew	<i>Bristol, Conn.</i>	59 Grove st.
Willard Bayliss	<i>Cleveland, O.</i>	1157 Chapel st.
Charles Sweetser Benson	<i>Portland, Me.</i>	146 College st.
George Alexander Berry	<i>Norwalk, Conn.</i>	West Haven
Walter Birnie	<i>Springfield, Mass.</i>	132 Wall st.
Louis Mark Bishop	<i>New Haven, Conn.</i>	71 Whalley av.
John Merrill Boden	<i>Pittsburgh, Pa.</i>	1076 Chapel st.
Gershom Burr Bradley, Jr.	<i>Saugatuck, Conn.</i>	192 Grove st.
Clifford Brewster Brainard	<i>Bristol, Conn.</i>	311 George st.
John Ira Brant	<i>Mount Joy, Pa.</i>	373 Crown st.
Edward Lacy Brayton	<i>Oakland, Cal.</i>	126 Wall st.
Henry Brewer	<i>New Haven, Conn.</i>	418 Orange st.
George Richard Brewster	<i>Newburgh, N. Y.</i>	159 Elm st.
Robert Edward Brooke	<i>Birdsboro, Pa.</i>	407 Temple st.
Morgan Prout Brooks	<i>New Haven, Conn.</i>	11 College st.
Charles Barto Brown	<i>New Haven, Conn.</i>	79 William st.
Frederick Zerban Brown	<i>Burlington, N. J.</i>	393 Temple st.
Edward Erle Brownell	<i>San Francisco, Cal.</i>	84 Wall st.
Harold Winthrop Buck	<i>New York City</i>	137 Wall st.
Elzey Gallatin Burkam, Jr.	<i>Lawrenceburg, Ind.</i>	170 York st.
Alexander Byers, Jr.	<i>Allegheny City, Pa.</i>	395 Temple st.
Andrew Owen Campbell	<i>Hamilton, O.</i>	40 Trumbull st.
Clarence Wellington Campbell	<i>New York City</i>	289 York st.
Paul Worthington Carhart	<i>Detroit, Mich.</i>	2 Audubon st.
Sheldon Catlin	<i>Bridgeport, Conn.</i>	143 College st.
Thomas Frederick Chadwick	<i>Newburgh, N. Y.</i>	159 Elm st.
Jerome Stuart Chaffee	<i>Amenia, N. Y.</i>	66 Howe st.
Charles McLane Clark	<i>St. Louis, Mo.</i>	141 College st.
William Irving Clock	<i>Dayton, O.</i>	55 Prospect st.
Newcomb Barney Cole	<i>Cleveland, O.</i>	425 Temple st.
George Eaton Collins	<i>Pittsburgh, Pa.</i>	7 Library st.
Samuel Gilbert Colt	<i>Pittsfield, Mass.</i>	395 Temple st.
Allan Worthington Cooke	<i>New York City</i>	130 Wall st.
Frederick Clifford Cooke	<i>Wallingford, Conn.</i>	200 Grove st.
Edward Vermilye Cox	<i>Orange, N. J.</i>	138 High st.
George Eliab Coy	<i>Milford, Conn.</i>	55 Prospect st.
Page Louie Dains	<i>East Litchfield, Conn.</i>	66 Howe st.
Charles Howard Daly	<i>New York City</i>	54 Wall st.
Edwin Haldeman Dennison	<i>Columbus, O.</i>	425 Temple st.

James Milan Dickson, Jr.	<i>Mansfield, O.</i>	22 Trumbull st.
Harry Perry Disbecker	<i>New York City</i>	133 College st.
Frank James Donaldson, Jr.	<i>Brooklyn, N. Y.</i>	159 Elm st.
Arthur Malcolm Drummond	<i>New Haven, Conn.</i>	464 Whalley av.
Frederick Wead Drury, Jr.	<i>St. Louis, Mo.</i>	133 College st.
Ralph Elliott Dusenberre	<i>Bristol, Conn.</i>	439 George st.
Charles M—— Edwards	<i>Plattsburgh, N. Y.</i>	335 Orange st.
John Leffingwell Eliot	<i>Clinton, Conn.</i>	405 Temple st.
Heman Ely, Jr.	<i>Elyria, O.</i>	136 College st.
Frederick Philip Farnsworth	<i>New Haven, Conn.</i>	55 Trumbull st.
Harry Warner Farnum	<i>Chicago, Ill.</i>	223 York st.
Smith Farley Ferguson	<i>Troy, N. Y.</i>	114 High st.
Ernest Rudolph Folger	<i>Oakland, Cal.</i>	395 Temple st.
James Henry Follis	<i>San Francisco, Cal.</i>	159 Elm st.
Robert True Fowler	<i>New Haven, Conn.</i>	1193 Chapel st.
John Macy Gallaway	<i>New York City</i>	Chapel st.
John Thomas Gillespie	<i>Morristown, N. J.</i>	1010 Chapel st.
William Henry Glenny, Jr.	<i>Buffalo, N. Y.</i>	391 Temple st.
John Milton Goetchius, Jr.	<i>New York City</i>	311 York st.
James Barnett Goodwillie	<i>Cleveland, O.</i>	254 York st.
Archibald Graham	<i>Paterson, N. J.</i>	127 College st.
Archibald Bauford Gwathmey, Jr.	<i>Richmond, Va.</i>	40 Elm st.
George Arthur Hadsell	<i>Plainville, Conn.</i>	285 York st.
Edward Clifton Hall	<i>Wallingford, Conn.</i>	200 Grove st.
Paul David Hamilton	<i>Waterbury, Conn.</i>	297 York st.
Edward Herbert Hart	<i>New Britain, Conn.</i>	150 College st.
Harrie Emile Hart	<i>New Britain, Conn.</i>	200 Grove st.
Maxwell Stansbury Hart	<i>New Britain, Conn.</i>	150 College st.
Herman Ferdinand Heilemann	<i>New Haven, Conn.</i>	92 Asylum st.
Isaac Morris Heller	<i>New Haven, Conn.</i>	95 St. John st.
Harold Edmunds Hewlett	<i>Babylon, N. Y.</i>	159 Elm st.
Herbert Crary Hill	<i>Mystic, Conn.</i>	84 Lafayette st.
Nathaniel Parker Hill	<i>Montgomery N. Y.</i>	409 Temple st.
Henry Hobart Holly, Jr.	<i>New York City</i>	54 Wall st.
Earle Cook Hopkins	<i>Danielsonville, Conn.</i>	136 College st.
Howard Parker Hotchkiss	<i>New Haven, Conn.</i>	1226 Chapel st.
Charles Wilson Hoyt	<i>New Haven, Conn.</i>	309 Howard av.
George Moulthrop Hubbell	<i>Ansonia, Conn.</i>	Ansonia
Everett Bradley Hurlburt	<i>Roxbury, Conn.</i>	20 Gill st.
Kaneyuki Ijuin	<i>Tokyo, Japan</i>	131 Howe st.
Frederick Thomas James	<i>New York City</i>	137 College st.
Clifford Stebbins Jennings	<i>Southport, Conn.</i>	678 State st.
Alexander Johnson	<i>Bridgeport, Conn.</i>	57 Lake pl.
Charles Stoddard Johnson	<i>New Haven, Conn.</i>	23 Trumbull st.

Frederick Allen Johnson	Norwich, Conn.	54 Wall st.
Howard Spafard Johnson	Brooklyn, N. Y.	84 Wall st.
Harry Lee Joyce	S. Egremont, Mass.	364 Whalley av.
Arthur Kingsbury Kaime	St. Louis, Mo.	395 Temple st.
Arthur Tryon Kemp	New York City	90 Wall st.
Irvine Keyser	Baltimore, Md.	391 Temple st.
Frederick Wilkinson Kilbourne	Meriden, Conn.	Meriden
Charles Rufus Knapp	Auburn, N. Y.	65 w.
Arthur James Ladd	Montville, Conn.	54 Wall st.
Frederick Martin Landé	New York City	120 High st.
William John Langzettel	New Haven, Conn.	725 Whitney av.
Burton James Lee	New Haven, Conn.	102 Dewitt st.
Frank Lee	Port of Spain, Trinidad	335 Orange st.
Frederic Henry Lee	Erie, Pa.	128 Wall st.
Joseph Lentilhon, Jr.	New York City	145 College st.
Tracy Samuel Lewis	Naugatuck, Conn.	65 Grove st.
Mitchell Campbell Lilley, Jr.	Columbus, O.	130 Wall st.
Marshall George Linn	Chicago, Ill.	223 York st.
John Henry McCullagh, Jr.	Irvington, N. Y.	184 York st.
Winslow Mallery	Cincinnati, O.	248 York st.
James Whiting Maples	Norwalk, Conn.	524 Chapel st.
Frederick Barclay Mechling	Denver, Col.	86 Broadway
Charles Edward Meigs	Waterbury, Conn.	65 Grove st.
Eugene Lawrence Messler	Pittsburgh, Pa.	7 Library st.
Louis Rochat Metcalfe	New York City	391 Temple st.
James Hoyt Miller	Stamford, Conn.	65 Grove st.
William DeWitt Mitchell	Winona, Minn.	132 Wall st.
Howard Allen Mix	West Haven, Conn.	West Haven
Jerome Alfred Clinton Morse	Brooklyn, N. Y.	163 York st.
Frederick Searles Munger	Herkimer, N. Y.	133 College st.
Frederic Sargent Munson	Brooklyn, N. Y.	154 Grove st.
Arthur Samuel Nathan	Chicago, Ill.	124 Wall st.
Henry Arthur Naumann	New Rochelle, N. Y.	109 Elm st.
Francis Irving Nettleton	Shelton, Conn.	Shelton
Laurence Edward Nickels	Seattle, Wash.	59 Lake pl.
Thomas Keaton Norris	New York City	40 Trumbull st.
Fred. Elmer Northrop	Southport, Conn.	72 Cottage st.
Lucius Offenheim	St. Paul, Minn.	111 High st.
Frederick Erskine Olmsted	Hartford, Conn.	107 Wall st.
Thomas Bucklin Owen	Providence, R. I.	126 Wall st.
Frank Judson Parker	Branford, Conn.	Branford
Henry Francis Parmelee	New Haven, Conn.	598 Chapel st.
Silas Beach Patterson	Torrington, Conn.	66 Howe st.
Sanford Hosea Wadhams	Torrington, Conn.	101 Lake pl.

Ermon Miland Peck	Woodbridge, Conn.	Woodbridge
Irving Hobart Peck	Birmingham, Conn.	59 Wall st.
John Crist Peck	Newburgh, N. Y.	106 York sq.
George Hoyt Penfield, Jr.	Catskill, N. Y.	55 Prospect st.
Alois John Joseph Pleiffer	Ansonia, Conn.	Ansonia
George Washington Pike, Jr.	S. Killingly, Conn.	314 York st.
William Wallace Pike	Chicago, Ill.	223 York st.
Charles Biddle Pinney	Stafford, Conn.	54 Wall st.
William Spencer Pope, Jr.	St. Louis, Mo.	141 College st.
Joseph Hersey Pratt	Middleboro, Mass.	131 Howe st.
Vincent Leonard Price	Chicago, Ill.	389 Temple st.
William Procter	Williamstown, Mass.	156 Grove st.
Abram Nave Ranney	St. Joseph, Mo.	90 Wall st.
Sextus Louis Reed	Gallatin, Tenn.	159 Elm st.
Chauncey Brewster Rice	New Haven, Conn.	Suburban st.
Charles Leonard Frost Robinson	New York City	114 High st.
Alexander Parker Rogers	New York City	314 York st.
George Frederick Root	Buffalo, N. Y.	22 Trumbull st.
Frederick Rustin	Omaha, Nebr.	109 Wall st.
George Foster Sanford	New Haven, Conn.	1090 Chapel st.
John Sargent	New Haven, Conn.	51 Elm st.
Wilfred Willis Savage	Hartford, Conn.	107 Wall st.
George Barker Seeley	Newark, N. J.	61 Grove st.
George St. John Sheffield	Attleboro, Mass.	130 Wall st.
Richard George Brinsley Sheridan	Cleveland, O.	254 York st.
Frederick Nichols Sinks	Columbus, O.	40 Trumbull st.
James Dudley Skinner	Denver, Col.	86 Broadway
Edward Page Smith	Chicago, Ill.	389 Temple st.
Sanford Minor Smith	Brookline, Mass.	23 Lynwood st.
Chester Stowe Spencer	Guilford, Conn.	18 Crown st.
Harry Merriman Steele	Waterbury, Conn.	99 Wall st.
Henry Cogswell Stevenson	Bridgeport, Conn.	137 College st.
Philip Tracy Stillman	Elizabeth, N. J.	133 College st.
Robert Curtis French Stoddard	Milford, Conn.	137 Wall st.
Edwin Howard Thomes	Roxbury, Conn.	134 College st.
Victor Cork Thorne	Black Rock, Conn.	263 Crown st.
David Tod	Youngstown, O.	393 Temple st.
Frederick Eugene Toquet	Westport, Conn.	192 Grove st.
Louis Downer Tracy	Fair Haven, Conn.	299 Center st.
Charles Rogers Treat	Orange, Conn.	127 Orange st.
Elisha Grant Trowbridge	New Haven, Conn.	685 Orange st.
Edward Lewis Uhl	New Haven, Conn.	27 Bradley st.
Fred Wood Varker	New York City	27 Wall st.
James Ashman Veech	New Haven, Conn.	23 Eld st.

Joseph Patten Wales	<i>Wilmington, Del.</i>	53 Prospect st.
James Walker, Jr.	<i>New Haven, Conn.</i>	127 Orange st.
Francis Castleman Waller	<i>Chicago, Ill.</i>	425 Temple st.
Francis Downs Wanning	<i>Huntington, Conn.</i>	70 Howe st.
Percy deForest Warner	<i>Salisbury, Conn.</i>	17 Wooster pl.
Edwin Chapin Washburn	<i>Minneapolis, Minn.</i>	36 Wall st.
Benjamin Glyde Wells	<i>Allegheny, Pa.</i>	130 Wall st.
Lynde Phelps Wheeler	<i>Bridgeport, Conn.</i>	539 Orange st.
Albion Harvey Whitney	<i>Petaluma, Cal.</i>	99 Wall st.
John Graham Wickham	<i>St. Louis, Mo.</i>	389 Temple st.
Dudley Phelps Wilkinson, Jr.	<i>Chicago, Ill.</i>	133 College st.
Samuel Porter Williams	<i>Hartford, Conn.</i>	113 Wall st.
Louis Brainard Wilson	<i>Hartford, Conn.</i>	318 Orange st.
Harry Worthen	<i>Brooklyn, N. Y.</i>	20 Whalley av.
Edward Taylor Wright	<i>Hancock, Mich.</i>	146 College st.
Willis Morris Wright	<i>Fair Haven, Conn.</i>	Fair Haven
Samuel Swan Yardley	<i>East Orange, N. J.</i>	143 College st.
Lawrence Yates	<i>Milwaukee, Wisc.</i>	126 Wall st.

FRESHMEN, 200

SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE

John Fuller Austin	<i>Gaylordsville, Conn.</i>	17 Wooster pl.
Roscoe Hayes Brown	<i>New Haven, Conn.</i>	185 Olive st.
Charles Edmund Cox	<i>Philadelphia, Pa.</i>	109 Wall st.
John Harry Frambach	<i>Kaukauna, Wisc.</i>	1010 Chapel st.
Charles Wilson Goodwin	<i>Harwinton, Conn.</i>	171 Meadow st.
William Anthony Granville	<i>Lindsborg, Kansas</i>	546 State st.
Arthur Barbey Graves	<i>Brooklyn, N. Y.</i>	43 College st.
Arthur Hammel Krom	<i>Plainfield, N. J.</i>	373 Crown st.
Gilbert Totten McMaster	<i>New Haven, Conn.</i>	6 High st.
George Curtis Treadwell	<i>Albany, N. Y.</i>	90 Wall st.

SPECIAL STUDENTS, 10

SUMMARY

GRADUATES	26
SENIORS	108
JUNIORS	117
FRESHMEN	200
SPECIAL STUDENTS	10

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SCHOOL OF THE FINE ARTS

Genevieve Allis	<i>Birmingham, Conn.</i>
Annie C. Banks	<i>Guilford, Conn.</i>
Robert H. Bonner	<i>New Haven, Conn.</i>
Grace Bronson	<i>New Haven, Conn.</i>
William M. Burgher	<i>Bridgeport, Conn.</i>
Grace Daggett	<i>New Haven, Conn.</i>
Gertrude Devine	<i>New Haven, Conn.</i>
Mira E. Dowd	<i>East River, Conn.</i>
John I. H. Downes	<i>New Haven, Conn.</i>
Caroline R. Durgy	<i>New Haven, Conn.</i>
Mary W. Evans	<i>New Haven, Conn.</i>
Edith A. Fisher	<i>New Haven, Conn.</i>
Mary Foote	<i>Guilford, Conn.</i>
Mary T. Gridley	<i>New Haven, Conn.</i>
Lewis A. Gudebrode	<i>Meriden, Conn.</i>
Mary H. Hadley	<i>New Haven, Conn.</i>
Ida L. Henry	<i>New Haven, Conn.</i>
Irving E. Hurlbut	<i>New Haven, Conn.</i>
Mildred C. Jordan	<i>New Haven, Conn.</i>
Florence M. Lake	<i>New Haven, Conn.</i>
George H. Langzettel	<i>New Haven, Conn.</i>
Josephine M. Lewis	<i>New Haven, Conn.</i>
Ida K. Macphie	<i>New Haven, Conn.</i>
Eleanor D. Munger	<i>New Haven, Conn.</i>
Mary R. North	<i>New Haven, Conn.</i>
Henrietta B. Richards	<i>West Haven, Conn.</i>
Alexander P. Rogers	<i>New York City</i>
Elnora D. Rogers	<i>New Haven, Conn.</i>
Pauline Shelton	<i>Plymouth, Conn.</i>
Edith H. Smith	<i>New Haven, Conn.</i>
S. Kate Spencer	<i>Westerville, O.</i>
Agnes H. Stirling	<i>Cleveland, O.</i>

Caroline L. Thomas	<i>New Haven, Conn.</i>
G. Albert Thompson	<i>Fair Haven, Conn.</i>
Mary Thompson	<i>Poughkeepsie, N. Y.</i>
Annie M. Van Winkle	<i>New Haven, Conn.</i>
M. Amanda Wyatt	<i>New Haven, Conn.</i>

Art Students,	37
Special Undergraduate Students in Drawing,	201
Total Number of Students receiving Instruction,	238

In addition to the above there will be a class formed for Undergraduate Students in the Academical Department for the Second Term.

DEPARTMENT OF THEOLOGY

(YALE DIVINITY SCHOOL)

RESIDENT LICENTIATES,

ATTENDING LECTURES

Eli George Biddle	<i>New Haven, Conn.</i>	115 Day st.
Benjamin Franklin Cokely, B.A. } Western University 1889	<i>Dayton, O.</i>	109 Dwight st.
J. Beauregard Colbert, B. A. } Livingston College 1888	<i>Ansonia, Conn.</i>	13 W.
Asapha Edward Erdman, B.A. } Muhlenberg College 1874	<i>Nazareth, Pa.</i>	294 Elm st.
Olin Raymond Howe, B.A. } Syracuse University 1882	<i>Killingworth, Conn.</i>	53 Prospect st.
Ursinus Olevianus Mohr, B.A. } Franklin & Marshall Coll. 1880, B.D. Yale University 1884	<i>Quakertown, Pa.</i>	West Haven

RESIDENT LICENTIATES, 6

GRADUATE CLASS

PURSUING FOURTH YEAR STUDIES

William Perry Arbuckle, B.A. } Oberlin College 1885, B.D. Boston University 1889	<i>New Haven, Conn.</i>	75 Fourth st.
Frederick Lincoln Davis, B.A. } University of the City of N. Y. 1888, Union Theol. Seminary	<i>Brooklyn, N. Y.</i>	28 E.
Jacob Andreasen Eckstorm, } McCormick Theol. Seminary	<i>Chicago, Ill.</i>	79 W.
John Lewis Evans, } Bangor Theol. Seminary	<i>Scranton, Pa.</i>	34 E.
Andrew Wylie Gerrie, B.A. } McGill University 1884, Congregational Coll. of Brit. N. A.	<i>Fergus, Ont., Canada</i>	92 Eaton st.
Charles Edward Hitchcock, B.A. } Western Reserve University 1883, B.D. Yale University 1886	<i>Cuyahoga Falls, O.</i>	83 W.
David Lyman Kebbe, B.A. } Amherst College 1888, B.D. Yale University 1891	<i>Southwick, Mass.</i>	39 E.
George Samuel Richards, B.D. } Yale University 1891	<i>Mahanoy City, Pa.</i>	18 E.

GRADUATE STUDENTS, 8

SENIOR CLASS

Edward Scribner Ames, B.A. } Drake University 1889	<i>Des Moines, Iowa</i>	53 E.
Arthur John Arn, B.A. } Yale University 1887	<i>Kansas City, Kansas</i>	100 W.
Joseph Henry Artopé, B.D. } Wilberforce University 1889	<i>Augusta, Ga.</i>	13 E.
Jesse Bailey, M.A. } Bates College 1890	<i>Auburn, Me.</i>	106 W.
Clifford Webster Barnes, B.A. } Yale University 1889	<i>Pasadena, Cal.</i>	Dwight Hall
John Bigham, M.A. } Amherst College 1890	<i>Northampton, Mass.</i>	45 E.
Thomas Cutler DesBarres, B.A. } University of Toronto 1889	<i>Toronto, Canada</i>	102 W.
Julius Wilbur Eggleston, B.A. } Wesleyan University 1889	<i>Waterbury, Conn.</i>	17 E.
Frank Lewis Garfield, B.A. } Amherst College 1888	<i>East Jaffrey, N. H.</i>	114 W.
Frank Oscar Hellier, } University of Michigan	<i>Grass Lake, Mich.</i>	60 W.
James Hunter, } University of Edinburgh	<i>Carlisle, Scotland</i>	98 W.
Frank Lovejoy Johnston, B.A. } Wheaton College 1889	<i>Byron, Ill.</i>	97 W.
Sumantrao Vishnu Karmarkar	<i>Bombay, India</i>	84 W.
Kevork Harutune Kazanjian, } Marash Theol. Seminary 1880	<i>Aintab, Turkey</i>	115 W.
James Harvey Keeling, B.A. } Rutgers College 1889	<i>Utica, N. Y.</i>	110 W.
William Albert Korn, B.A. } Ursinus College 1887	<i>Mertztown, Pa.</i>	23 E.
William Gilbert Lathrop, B.A. } Brown University 1889	<i>Providence, R.I.</i>	16 University pl.
Edward Olaus Loe, B.A. } Yale University 1889	<i>Grand Meadow, Minn.</i>	93 W.
Claire Franklin Luther, B.A. } Amherst College 1889	<i>Painesville, O.</i>	87 W.
William Henry Manss, B.A. } Wittenberg College 1887	<i>Cincinnati, O.</i>	108 W.
Duncan Salisbury Merwin, B.A. } Yale University 1888	<i>New Haven, Conn.</i>	106 W.
Harry Roberts Miles, B.A. } Harvard University 1888	<i>Appleton, Wisc.</i>	111 W.
Charles Duncklee Milliken, B.A. } Dartmouth College 1887	<i>Hartford, Conn.</i>	67 W.
Frank Alvin Morgan, B.A. } and B.D. Drake University 1888	<i>Des Moines, Iowa</i>	53 E.

William Sacheus Morgan, { Baptist College, Pontypool	<i>Pontypool, Wales</i>	100 W.
Herbert Arthur Mosser, B.A. { Olivet College 1889	<i>Spring Lake, Mich.</i>	82 W.
Roscoe Nelson, B.A. { Bates College 1887	<i>Canaan, Me.</i>	104 W.
Richard Owen, B.A. { Marietta College 1889	<i>Pittsburgh, Pa.</i>	103 W.
Charles Eugene Ozanne, B.A. { Adelbert College 1889	<i>Cleveland, O.</i>	109 W.
Dryden William Phelps, M.A. { Brown University 1880	<i>New Haven, Conn.</i>	44 High st.
Morgan Everett Powelson, B.A. { Lafayette College 1889	<i>Plainfield, O.</i>	112 W.
Jefferson Davis Ritchey, M.A. { Drury College 1891	<i>St. Louis, Mo.</i>	27 E.
Benjamin Berry Seelye, B.A. { Yale University 1876	<i>Middlebury, Conn.</i>	29 E.
Edward Parsons Seymour, B.A. { Amherst College 1884	<i>Washington, D. C.</i>	571 Elm st.
David Lewis Thomas, B.A. { Marietta College 1889	<i>Wilkes-Barré, Pa.</i>	60 W.
Irving Francis Wood, M.A. { Hamilton College 1888	<i>North Walton, N. Y.</i>	88 W.
Samuel Hetherington Woodrow, B.A. { Bates College 1881	<i>Auburn, Me.</i>	23 Shelton av.
SENIOR CLASS, 37		

MIDDLE CLASS

Edward Perkins Ayer, { Amherst College	<i>Brookfield, Mass.</i>	80 W.
Otis Webb Barker, B.A. { Amherst College 1884	<i>Brooklyn, N. Y.</i>	250 Orchard st.
Theodore Protas Berle, B.A. { Oberlin College 1890	<i>St. Louis, Mo.</i>	46 E.
Edgar Franklin Blanchard, B.A. { Bates College 1888	<i>West Farmington, Me.</i>	90 W.
Edward Shepard Bromer, B.A. { Ursinus College 1890	<i>Schwenksville, Pa.</i>	48 E.
Bert Francis Case, B.A. { Yale University 1890	<i>Granby, Conn.</i>	42 E.
Samuel Davies, { Carmarthen College 1890	<i>Penboyt, S. Wales</i>	73 W.
Albert Putnam Davis, B.A. { Amherst College 1887	<i>Hyde Park, Mass.</i>	24 E.

Boothe Colwell Davis, B.A. }	<i>Jane Lew, W. Va.</i>	20 E.
Alfred University 1890 }		
Frank Butler Doane, B.A. }	<i>Hawley, Mass.</i>	35 E.
Amherst College 1890 }		
George Curtis Doolittle, B.A. }	<i>Toledo, O.</i>	117 W.
Oberlin College 1890 }		
Evan Evans, B.A. }	<i>Cincinnati, O.</i>	96 W.
Marietta College 1890 }		
Charles Edward Ewing, B.A. }	<i>Danvers, Mass.</i>	19 E.
Amherst College 1890 }		
George Henry Ewing, B.A. }	<i>Danvers, Mass.</i>	33 E.
Amherst College 1890 }		
George Henry Flint, M.A. }	<i>Lincoln, Mass.</i>	25 E.
Williams College 1890 }		
Henry Martin Goddard, B.A. }	<i>Ludlow, Vt.</i>	26 E.
Middlebury College 1890 }		
Lincoln Baker Goodrich, B.A. }	<i>Plainfield, N. J.</i>	105 W.
Amherst College 1888 }		
Edwin Milton Griffin, B.A. }	<i>Buffalo, N. Y.</i>	89 W.
Cornell University 1890 }		
Andrew Hamilton, B.A. }	<i>Brantford, Ont., Canada</i>	22 E.
University of Toronto 1886 }		
Charles Edward Harris, B.A. }	<i>Providence, R. I.</i>	81 W.
Yale University 1885, }		
M.A. Columbia College 1886 }		
Fosdick Beach Harrison, B.A. }	<i>Bethlehem, Conn.</i>	51 E.
Amherst College 1890 }		
Godfrey August Holzinger, B.A. }	<i>Princeton, Ill.</i>	94 W.
Olivet College 1887 }		
Richard Henry Hughes, }	<i>Tan'rallt, N. Wales</i>	113 W.
Bala Calvinistic Methodist College }		
Robert Seney Ingraham, M.A. }	<i>Brooklyn, N. Y.</i>	54 E.
Wesleyan University 1891 }		
John Lincoln Keedy, B.A. }	<i>Rohrersville, Md.</i>	92 W.
Lebanon Valley College 1889 }		
Charles Pennypacker Kehl, B.A. }	<i>East Greenville, Pa.</i>	47 E.
Ursinus College 1890 }		
Harvey Merrill Lawson, PH.B. }	<i>Union, Conn.</i>	44 E.
Yale University 1890 }		
James McLaughlin, B.A. }	<i>Danielsonville, Conn.</i>	10 E.
Brown University 1890 }		
Willard Carey MacNaul, B.A. }	<i>Salona, Pa.</i>	95 W.
Bucknell University 1890 }		
James Brittain Miller, }	<i>Ypsilanti, Mich.</i>	14 E.
Michigan State Normal School }		
Warren Joseph Moulton, B.A. }	<i>Center Sandwich, N. H.</i>	38 E.
Amherst College 1888 }		
Ernest Alfonso Orr, B.A. }	<i>Philadelphia, Pa. 69 Dickerman st.</i>	
Mt. Morris College 1891 }		

Frank Park, B.A. } Iowa State University 1889 }	<i>Viola, Ill.</i>	32 E.
Robert Paton, B.A. } Oberlin College 1888 }	<i>Almont, Mich.</i>	15 E.
Frank Curtiss Putnam, B.A. } Amherst College 1890 }	<i>Buffalo, N. Y.</i>	99 W.
Harry Elmer Small, B.A. } Amherst College 1890 }	<i>Machiasport, Me.</i>	26 E.
Wilson Reed Stewart, B.A. } Wittenberg College 1890 }	<i>Bucyrus, O.</i>	21 E.
Bernard Tyrrell, B.A. } Hillsdale College 1888 }	<i>McGaheysville, Va.</i>	30 E.
Charles Prest Wells, B.A. } Victoria University 1890 }	<i>Sarnia, Ont., Canada</i>	78 W.
Herbert Pekin Woodin, B.A. } Amherst College 1888 }	<i>Foochow, China</i>	37 E.
William Michael Zumbro, M.A. } Western College 1891 }	<i>Purdin, Mo.</i>	40 E.

MIDDLE CLASS, 41

JUNIOR CLASS

Gaius Glenn Atkins, B.A. } Ohio State University 1888, LL.B. Cincinnati Law School 1891 }	<i>Plain City, O.</i>	107 W.
Gurdon Franklin Bailey, B.A. } Yale University 1891 }	<i>Groton, Conn.</i>	2 E.
Charles Davis Burrows, B.A. } Brown University 1891 }	<i>Providence, R. I.</i>	59 W.
Ambrose Upton Gledstones Bury, B.A. } Trinity College, Dublin, 1890 }	<i>Mt. Hermon, Mass.</i>	41 E.
Henry Cartledge	<i>Abington, Conn.</i>	59 W.
Jacob Elon Connor, B.A. } State University of Iowa 1891 }	<i>Mt. Pleasant, Iowa</i>	119 W.
William Llewellyn Evans, } Carmarthen College }	<i>Denlyn, Wales</i>	74 W.
Orishatukeh Faduma, } University of London }	<i>Waterloo, Sierra Leone</i>	36 E.
Albert Louis Grein, PH.B. } Oberlin College 1891 }	<i>Buffalo, N. Y.</i>	61 W.
Jacob Lewis Hartsock, } Johns Hopkins University }	<i>Hagerstown, Md.</i>	76 W.
Charles Stillman Haynes, B.A. } Williams College 1891 }	<i>Fitchburg, Mass.</i>	121 W.
Samuel George Heckmann, B.A. } University of Cincinnati 1891 }	<i>Cincinnati, O.</i>	43 E.
William Fleetwood Ireland, B.A. } Oberlin College 1891 }	<i>Natal, S. Africa</i>	118 W.

Harry William Landfear, B.A. } Amherst College 1890	Glastonbury, Conn.	91 w.
Henry Leigh Layman, B.A. } Adrian College 1891	Los Angeles, Cal.	92 w.
James Crawford Lester, B.A. } Amherst College 1890	Fairmont, W. Va.	120 w.
Abraham Lincoln McClelland, B.A. } Oberlin College 1889	Brandon, Wisc.	61 w.
Harry Chamberlain Meserve	Lowell, Mass.	91 w.
Abraham Lincoln Moore, B.A. } Bucknell University 1891	Haddonfield, N. J.	49 w.
John Winslow Norris, B.A. } University of Vermont 1891	Albany, Vt.	107 w.
Carroll Perry, B.A. } Williams College 1890	Williamstown, Mass.	123 w.
Nathan James Plumb, B.A. } Ohio Wesleyan University 1870	Shanghai, China	120 Dwight st.
Aurelian Post, B.A. } Hamilton College 1891	Clinton, N. Y.	4 E.
Henry Hugh Proctor, B.A. } Fisk University 1891	Fayetteville, Tenn.	36 E.
Charles Edwin Reeves, } Williams College	New London, Conn.	8 E.
Anders Sandbo, B.A. } St. Olaf College 1890	Hills, Minn.	75 w.
William Ernest Melville Stewart, B.A. } Whitman College 1891	Astoria, Oregon	76 w.
Edward Seymour Thomas, B.A. } Yale University 1888	Providence, R. I.	31 E.
Robert John Thomson, } Johns Hopkins University	Baltimore, Md.	41 E.
Paul Tustin, B.A. } Bucknell University 1891	Bloomsburg, Pa.	49 E.

JUNIOR CLASS, 30

SUMMARY

RESIDENT LICENTIATES,	6
GRADUATE CLASS,	8
SENIOR CLASS,	37
MIDDLE CLASS,	41
JUNIOR CLASS,	30
TOTAL,	122

DEPARTMENT OF MEDICINE

(YALE MEDICAL SCHOOL)

GRADUATE STUDENTS

Edward Lydston Bliss, M.D. }	<i>Newburyport, Mass.</i> 371 Crown st.
Yale University 1891 }	
Charles Winthrop Hartwell, M.D. }	<i>New Haven, Conn.</i> 104 Howe st.
Yale University 1891 }	

GRADUATE STUDENTS, 2

SENIOR CLASS

Leonard Woolsey Bacon, Jr.	<i>New York City</i> 203 Norton st.
George Newton Bell	<i>Windsor, Conn.</i> 107 Temple st.
Richard Francis Brown	<i>New Britain, Conn.</i> 351 East st.
Elias Wyman Davis, B.A. }	<i>New Haven, Conn.</i> 311 York st.
Yale University 1880 }	
Alexander William Evans, PH.B. }	<i>New Haven, Conn.</i> 12 High st.
Yale University 1890 }	
Timothy John Foley	<i>Worcester, Mass.</i> 103 Park st.
Austin Brainerd Fuller, B.A. }	<i>New Haven, Conn.</i> 145 Olive st.
Yale University 1866 }	
Frederick George Graves	<i>Danbury, Conn.</i> 107 Temple st.
Joseph Barnard Hall	<i>Hartford, Conn.</i> 297 George st.
John Augustus Hartwell, PH.B. }	<i>Jersey City, N. J.</i> 1090 Chapel st.
Yale University 1889 }	
Moses Jacob Husinsky	<i>New Haven, Ct.</i> 449 Congress av.
George Henry Jackson, B.D. }	<i>New Haven, Conn.</i> 115 Day st.
Yale University 1891 }	
William Matthew Kenna, PH.B. }	<i>New Haven, Conn.</i> 440 State st.
Yale University 1890 }	
William Alfred Korn, B.A. }	<i>Norwich, Conn.</i> 1142 Chapel st.
Yale University 1890 }	
George Newton Lawson, B.A. }	<i>Union, Conn.</i> 22 College st.
Yale University 1890 }	
Ralph Augustine McDonnell, B.A. }	<i>New Haven, Conn.</i> 266 Portsea st.
Yale University 1890 }	
Thomas Edward McEvoy, B.A. }	<i>Hopkinton, Mass.</i> 1142 Chapel st.
Yale University 1890 }	
Edward Lyman Munson, B.A. }	<i>Whitneyville, Conn.</i> 137 Elm st.
Yale University 1890 }	

Homer Tomlinson Partree, B.A. } Yale University 1887	Woodbury, Conn. 41 Howe st.
Alexander Rovinsky	New Haven, Conn. 187 Franklin st.
Hyman Solomon Shlevin	New Haven, Conn. 608 Grand av.
William Charles Wurtemberg, PH.B. } Yale University 1889	Willink, N. Y. 88 Wall st.

SENIOR CLASS, 22

MIDDLE CLASS

Ambrose Kirk Brennan	New Haven, Conn. 179 Franklin st.
Rollin Blackman Chatfield	Seymour, Conn. 311 York st.
Frederick Stanley Cowles	Rome, N. Y. 371 Crown st.
Wilton Elias Dickerman, B.A. } Amherst College 1890	Whitneyville, Conn. Whitneyville
Alejandro García Aragón, B.A. and B.S. } College of San Luis Gonzaga 1888	Cartago, Costa Rica 33 Howe st.
Frederick Carl Goldstein	Ansonia, Conn. Ansonia
Miles Remond Gordon	Chelsea, Mass. 115 Day st.
Isaac Napoleon Porter, B.A. } Lincoln University 1890	Summit Bridge, Del. 115 Day st.
Eugene Stout Ripley	Asbury Park, N. J. 1360 Chapel st.
Martial Adolph Scharton	North Haven, Ct. 316 Exchange st.
Morris Dare Slatery	New Haven, Conn. 172 DeWitt st.
Frederick Benoni Sweet	Lebanon, Conn. 381 Crown st.

MIDDLE CLASS, 12

JUNIOR CLASS

Ernest Herman Arnold	New Haven, Ct. 214 English st.
Woodburne Roszel Avis	New Haven, Conn. 124 Division st.
Jerome Samuel Bissell	West Morris, Ct. 18 Dickerman st.
Charles Porter Botsford	East Berlin, Conn. 44 Lyon st.
Charles Ellsworth Bush	Niantic, Conn. 252 Spring st.
Joseph Almarin Capps, B.A. } Illinois College 1891	Jacksonville, Ill. 142 Dwight st.
Arthur Sanford Cheney, PH.B. } Yale University 1889	New Haven, Conn. 45 Elm st.
Charles Gardner Child, Jr.	Montclair, N. J. 121 Elm st.
John William Coogan	New Haven, Conn. 14 Bradley st.
Charles Franklin Craig	Danbury, Conn. 107 Temple st.
William Martin Curtiss	Norfolk, Conn. 381 Crown st.
Frederick Elliott Dudley	New Haven, Conn. 1157 Chapel st.
Charles Edmund Geer	Meriden, Conn. 24 College st.
Edward Winchester Goodenough, B.A. } Yale University 1887	Winchester, Conn. 41 Howe st.

William Munson Goodwin	<i>Waterbury, Conn.</i> 297 George st.
Richard Sill Griswold, Jr.	<i>Lyme, Conn.</i> 121 Elm st.
Edward Franklin Horr, B.A. }	<i>Bridgeport, Conn.</i> 1173 Chapel st.
Yale University 1891	
Alfred Stillé Ives	<i>New Haven, Conn.</i> 347 Temple st.
Edward Lyman Kingman	<i>Bridgeport, Conn.</i> Bridgeport
Franklin Lyman Lawton, PH.B. }	<i>Meriden, Conn.</i> Meriden
Yale University 1890	
William Joseph Lynch	<i>Hartford, Conn.</i> 61 Edgewood av.
Edward Brooks Marston	<i>Bath, Me.</i> 297 George st.
Edward Seymour Moulton, B.A. }	<i>Oberlin, O.</i> 233 York st.
Oberlin College 1891	
James Mann O'Brien	<i>New Haven, Ct.</i> 420 Winthrop av.
F. Forst Richard Oertel	<i>New Haven, Conn.</i> 31 York sq.
Thomas Boyne Patterson	<i>Columbia, S. C.</i> 107 Whalley av.
Robert Ellsworth Peck, PH.B. }	<i>New Haven, Conn.</i> 486 Elm st.
Yale University 1890	
Leonard Cutler Sanford, B.A. }	<i>New Haven, Conn.</i> 216 Crown st.
Yale University 1890	
Walter Chadwick Sears	<i>Portland, Conn.</i> 161 York st.
Frederick Noyes Sperry	<i>New Haven, Conn.</i> 76 Wooster st.
Seymour Leopold Spier	<i>New Haven, Conn.</i> 145 Bradley st.
John Francis Sullivan, B.A. }	<i>New Haven, Conn.</i> 928 Chapel st.
Yale University 1890	
Albert Augustus Tanyane	<i>New Haven, Conn.</i> 14 Park st.
William Francis Verdi	<i>New Haven, Ct.</i> 167 Wallace st.
Thomas Herbert Young	<i>Hamilton, Ont., Can.</i> 80 Crown st.
	JUNIOR CLASS, 35

SPECIAL STUDENTS

Herbert L. Simpson	<i>Trenton, N. J.</i> 27 Garden st.
William Barnard Smith, B.A. }	<i>Marlboro, Mass.</i> 70 Howe st.
Wesleyan University 1888	
Lewis Levy Willard	<i>New Haven, Conn.</i> 120 Ivy st.
	SPECIAL STUDENTS, 3

SUMMARY

GRADUATE STUDENTS,	2
SENIOR CLASS,	22
MIDDLE CLASS,	12
JUNIOR CLASS,	35
SPECIAL STUDENTS,	3
TOTAL,	74

DEPARTMENT OF LAW

(YALE LAW SCHOOL)

GRADUATE STUDENTS

George Woodburn Andrew, LL.B. Yale University 1891, Attorney at Law	}	<i>New Britain, Conn.</i> New Britain
George Leslie Armstrong, LL.B. Yale University 1891, Attorney at Law		
Edward Grant Buckland, B.A. Washburn College 1887, LL.B. Yale Univ. 1889, Attorney at Law	}	<i>New Haven, Conn.</i> 419 Temple st.
Henry Graham Crocker, LL.B. Yale University 1891		
Hidei Fukuoka, LL.B. Cumberland University 1891	}	<i>Sarnia, Ont., Canada</i> 63 Prospect st.
John Aaron Hooper, LL.B. Yale University 1891, Attorney at Law		
Louis Jacobs, LL.B. Yale University 1890, Attorney at Law	}	<i>Tokyo, Japan</i> 101 Humphrey st.
Sukahide Kabayama, LL.B. Yale University 1891, Attorney at Law		
George Aaron Kellogg, B.A. Amherst College 1889, LL.B. Yale University 1891	}	<i>York, Pa.</i> 61 Prospect st.
Albert James Kenyon, LL.B. Yale University 1891		
John Richard Morgan, PH.B. Butler University 1889, LL.B. Yale University 1891, Att'y. at Law	}	<i>New Haven, Conn.</i> 851 Chapel st.
Robert Clark Morris, LL.B. Yale University 1890, Attorney at Law		
Frederick Eli Mygatt, LL.B. Yale University 1891	}	<i>Tokyo, Japan</i> 1161 Chapel st.
Andrew Wilson, LL.M. Georgetown Univ. 1891, Att'y. at Law		
Akira Yamamoto, LL.B. Columbian Univ. 1891, Att'y. at Law	}	<i>New Haven, Ct.</i> 315 Orchard st.
		<i>Branford, Conn.</i> Branford
		<i>Indianapolis, Ind.</i> 61 Admiral st.
		<i>Bridgeport, Conn.</i> Bridgeport
		<i>New Milford, Ct.</i> 333 Orange st.
		<i>Washington, D. C.</i> 502 Elm st.
		<i>Tokyo, Japan</i> 56 Whalley av.

SENIOR CLASS

William Pope Aiken, B.A. }	<i>Rutland, Vt.</i>	115 Elm st.
Yale University 1889 }		
Clarence Kidder Alger	<i>New Haven, Conn.</i>	288 Lloyd st.
Frederic Sturges Allen, B.A. }	<i>Bridgeport, Conn.</i>	2 Audubon st.
Yale University 1884 }		
Frank Stymets Bishop, B.A. }	<i>New Haven, Conn.</i>	61 Lyon st.
Yale University 1890 }		
Herbert Morton Bishop, B.A. }	<i>New Haven, Conn.</i>	215 Church st.
Yale University 1890 }		
Charles Wright Boltwood, B.A. }	<i>New Haven, Conn.</i>	77 Wall st.
Yale University 1890 }		
Francis Patrick Brett	<i>Waterbury, Conn.</i>	25 Home pl.
John Zachariah Brickley, }	<i>Bluffton, Ind.</i>	141 Bradley st.
Attorney at Law }		
Edward Clark Burns	<i>Ansonia, Conn.</i>	Ansonia
John Frederic Carpenter	<i>Putnam, Conn.</i>	91 Lake pl.
John Francis Cuff	<i>Danbury, Conn.</i>	57 Prospect st.
Arthur Pomeroy Day, B.A. }	<i>Hartford, Conn.</i>	85 w.
Yale University 1890 }		
John Mansfield Douglas, Jr.	<i>Middletown, Conn.</i>	86 w.
Joseph Edley England, B.A. }	<i>Little Rock, Ark.</i>	928 Chapel st.
Coll. of the Christian Brothers, Mo. }		
Samuel Herbert Fisher, B.A. }	<i>New Haven, Ct.</i>	88 Trumbull st.
Yale University 1889 }		
Morgan John Flaherty	<i>Ansonia, Conn.</i>	57 Prospect st.
Charles Cleveland Ford	<i>New Haven, Conn.</i>	371 Whalley av.
Katrutaro Fukushima	<i>Tokyo, Japan</i>	66 Whalley av.
Lewis Scofield Haslam, B.A. }	<i>Stamford, Conn.</i>	85 w.
Yale University 1890 }		
John James Healey	<i>Saratoga Springs, N. Y.</i>	57 Prospect st.
William Thomas Henry	<i>Dallas, Tex.</i>	30 Home pl.
Herbert Augustus Hill, B.A. }	<i>Bridgeport, Conn.</i>	Bridgeport
Wesleyan University 1889 }		
John Francis Holohan	<i>Waterbury, Conn.</i>	Waterbury
Henry Arthur Huntington	<i>Poquonock, Conn.</i>	25 Lynwood st.
Frank William Igo	<i>New Haven, Ct.</i>	153 Ashmun st.
Jesse William Johnson	<i>Brooklyn, N. Y.</i>	409 Temple st.
Richard Harvey Johnson	<i>Boise City, Idaho</i>	93 Olive st.
Howard Clifford Joyce	<i>Nyack, N. Y.</i>	Bridgeport
Henry Thomas King	<i>Meriden, Conn.</i>	Meriden
Franklin Leonard, Jr.	<i>Westfield, Mass.</i>	23 Lynwood st.
Harry Wills McIntosh, PH.B. }	<i>Pittsburgh, Pa.</i>	928 Chapel st.
Western Univ. of Pa. 1890 }		
George Robert McKenna	<i>Westerly, R. I.</i>	25 Home pl.

William Adolphe McQuaid, B.A. } Yale University 1889	<i>New Haven, Conn.</i> 181 Orchard st.
John Charles McWilliams	<i>New Haven, Ct.</i> 16 Hamilton st.
Augustine Francis Maher, B.A. } Manhattan College 1890	<i>New Haven, Conn.</i> 203 East st.
James Bernard Martin	<i>New Haven, Conn.</i> 576 Grand av.
Sanford Bouck Martin, B.A. } Pennsylvania College 1890	<i>Gettysburg, Pa.</i> 522 Chapel st.
Solomon Cristy Mead, B.A. } Yale University 1890	<i>Greenwich, Conn.</i> 1494 Chapel st.
Louis Jackson Morgan, PH.B. } Butler University 1888	<i>Indianapolis, Ind.</i> 61 Admiral st.
William Henry Morlatt, B.A. } National Normal University 1889	<i>Lebanon, O.</i> 516 Chapel st.
William James Neary, B.A. } College of the Holy Cross 1890	<i>Naugatuck, Conn.</i> 928 Chapel st.
Charles Whittlesey Pickett	<i>New Haven, Conn.</i> 23 Lynwood st.
Robert Treat Platt, B.A. } Yale University 1889	<i>Milford, Conn.</i> Milford
John Henry Roemer, B.A. } Marietta College 1887, Att'y. at Law	<i>Wheeling, W. Va.</i> 516 Chapel st.
Linford Fenn Root	<i>Waterbury, Conn.</i> 679 Chapel st.
Paul Russo	<i>New Haven, Ct.</i> 70 Washington st.
William Henry Smith, B.A. } Yale University 1890	<i>New Haven, Conn.</i> 415 Orange st.
James Robert Spurgeon	<i>Richmond, Va.</i> 107 Whalley av.
George Peabody Steele	<i>Denver, Col.</i> 16 Lynwood st.
Francis Willcox Treadway, B.S. } Worcester Polytechnic Inst. 1890	<i>Cleveland, O.</i> 116 College st.
Albert Foote Wells, B.A. } Yale University 1884	<i>New Haven, Conn.</i> 26 Academy st.
Lebbeus Redman Wilfley, M.A. } Central College, Mo., 1891, Att'y. at Law	<i>Mexico, Mo.</i> 516 Chapel st.
Rollin Chappell Wooster	<i>New Britain, Conn.</i> 144 Dwight st.
Alfred Northam Wright	<i>Centerbrook, Conn.</i> 117 Wooster st.
William Morris Wylie	<i>New York City</i> 165 Orange st.
Samuel Albert York, Jr., B.A. } Yale University 1890	<i>New Haven, Ct.</i> 139 Edwards st.

JUNIOR CLASS

Thomas Catching Baird	<i>Baird, Miss.</i> 63 Prospect st.
Roger Sherman Baldwin, B.A. }	<i>New Haven, Conn.</i> 44 Wall st.
Yale University 1890 }	
John Wallace Banks, B.A. }	<i>Guilford, Conn.</i> Guilford
Yale University 1889 }	
Byron Lakin Bargar	<i>Columbus, O.</i> 294 Elm st.
Charles Roderick Beers	<i>Bridgeport, Conn.</i> Bridgeport
Webster Hill Belden	<i>Norwalk, Conn.</i> Norwalk
Frank Sheridan Benninghoff, B.A. }	<i>Clyde, N. Y.</i> 468 State st.
Yale University 1891 }	<i>Norwich, Conn.</i> 227 Sherman av.
Julian Jedediah Bishop	<i>New Haven, Conn.</i> 361 Temple st.
James Kingsley Blake, B.A. }	
Yale University 1891 }	<i>New Haven, Conn.</i> 209 Crown st.
Dwight Eliot Bowers, B.A. }	
Yale University 1887 }	<i>Peabody, Mass.</i> 115 Elm st.
Arthur Taylor Brown, B.A. }	<i>S. Norwalk, Conn.</i> S. Norwalk
Bowdoin College 1891 }	<i>Litchfield, Minn.</i> 90 Whalley av.
Charles Dudley Burnes	<i>New Haven, Conn.</i> 742 Grand av.
Ernest Wells Campbell	<i>Honolulu, H. I.</i> 111 York st.
James Abrial Caporale	<i>New Haven, Conn.</i> 65 Olive st.
Alfred Wellington Carter	<i>San Francisco, Cal.</i> 1024 Chapel st.
John Joseph Clerkin, B.A. }	<i>Bridgeport, Conn.</i> Bridgeport
College of the Holy Cross 1877 }	<i>Windsor Locks, Ct.</i> 1179 Chapel st.
Robert Lewis Coleman, PH.B. }	<i>New Haven, Ct.</i> 376 Whitney av.
Yale University 1891 }	<i>New York City</i> 118 College st.
Thomas Henry Cone	<i>Seymour, Conn.</i> 137 Wall st.
James Tobias Coogan	<i>New Haven, Conn.</i> 400 Orange st.
Homer Stille Cummings, PH.B. }	<i>Haiku, Maui, H. I.</i> 26 Lynwood st.
Yale University 1891 }	<i>Bridgeport, Conn.</i> Bridgeport
George Milton Curtis, Jr.	<i>New London, Conn.</i> 226 Crown st.
Harry Goodyear Day, PH.B. }	<i>Brooklyn, N. Y.</i> 113 York st.
Yale University 1890 }	<i>Winchester, Tenn.</i> 267 Orange st.
James Dudley Dewell, Jr.	<i>New York City</i> 12 Whalley av.
Lyle Alexander Dickey, B.A. }	<i>Fairfield, Conn.</i> Fairfield
Yale University 1891 }	<i>Monroe, N. Y.</i> 285 York st.
Harry Willet Doolittle	
Thomas Francis Dorsey	
Edward Bignold Elkins	
Joe Garner Estill, B.A. }	
Yale University 1891 }	
Daniel Fred Fowler	
Charles Sherwood Fox	
Robert Miles Gignoux	

Arthur Collins Graves, B.A. }	<i>New Haven, Conn.</i> 101 Grove st.
Trinity College 1891 }	
Lee Gray	<i>Phoenix, Arizona</i> 138 St. John st.
Warner Harrison	<i>Columbus, O.</i> 133 College st.
George Pickard Hawkes, B.A. }	<i>New Haven, Ct.</i> 1589 Chapel st.
Yale University 1891 }	
Frank Edward Healy	<i>Windsor Locks, Conn.</i> 294 Elm st.
William Joseph Henegan	<i>Newark, N. J.</i> 28 Spruce st.
William Thurston Hincks, B.A. }	<i>Bridgeport, Conn.</i> Bridgeport
Yale University 1891 }	
John Hone, 3d, B.A. }	<i>Red Bank, N. J.</i> 121 Elm st.
Princeton College 1891 }	
Jesse Wheeler Hubbard	<i>Sioux City, Iowa</i> 57 Lake pl.
George Henry Huddy, Jr.	<i>Providence, R. I.</i> 310 Elm st.
Torrey Treherne Hull	<i>Jewett City, Conn.</i> 147 Wooster st.
Milton Cleaveland Isbell, PH.B. }	<i>Ansonia, Conn.</i> Ansonia
Yale University 1891 }	
Richard Everett Jeffery	<i>San Diego, Cal.</i> 24 College st.
Charles Poole Kellogg, B.A. }	<i>Waterbury, Conn.</i> 390 Prospect st.
Yale University 1890 }	
Thomas Francis Lawlor	<i>Waterbury, Conn.</i> 440 State st.
Sidney Nelson Lockwood	<i>Bridgeport, Conn.</i> 1142 Chapel st.
James St. Clair McCall	<i>York, Pa.</i> 61 Prospect st.
Malcolm MacLear, B.A. }	<i>Wilmington, Del.</i> 1161 Chapel st.
Yale University 1891 }	
David Thomas McNamara	<i>New Haven, Ct.</i> 270 Hamilton st.
William Brayton Mann	<i>Providence, R. I.</i> 310 Elm st.
Charles Herbert Mathews	<i>New Haven, Conn.</i> 732 Orange st.
Harry Nelson Moon, B.S. }	<i>Memphis, Tenn.</i> 67 Whalley av.
Agricultural Univ. of Miss. 1891 }	
John Hall Musgrave	<i>Pittsburgh, Pa.</i> 294 Elm st.
Leslie Wickham Newberry	<i>S. Windsor, Conn.</i> 419 Temple st.
William Norton	<i>Waukegan, Ill.</i> 65 York sq.
Daniel Lyman Parsons	<i>Johnstown, Pa.</i> 294 Elm st.
David Whitman Parsons, B.A. }	<i>Oakland, Me.</i> 115 Park st.
Colby University 1891 }	
Wilfred Montessor Peck	<i>Stratford, Conn.</i> Stratford
Alfred Horace Phelps, B.A. }	<i>Denver, Col.</i> 383 George st.
Northwestern University 1891 }	
Alexander George Morison Robertson	<i>Honolulu, H. I.</i> 111 York st.
Alexander Kirkwood Sedgwick	<i>Ishpeming, Mich.</i> 36 Elm st.
George Bargh Sedgwick	<i>Ishpeming, Mich.</i> 36 Elm st.
Kakichi Senta	<i>Tokyo, Japan</i> 27 Lynwood st.
Redford Brian Tunstall Sharpe	<i>San Antonio, Tex.</i> 51 Garden st.
Alfred Willoughby Smith	<i>Middlebury, Vt.</i> 297 George st.
Robert Law Spaulding	<i>Chicago, Ill.</i> 114 High st.

Isadore Abraham Stein	<i>New Haven, Conn.</i>	107 Hill st.
John Adelbert Stewart	<i>Bridgeport, Conn.</i>	Bridgeport
John Dewell Swain	<i>Boston, Mass.</i>	532 Chapel st.
John Quillin Tilson, B.A. }	<i>Clear Branch, Tenn.</i>	1 TR.
Yale University 1891 }		
Rollin Usher Tyler, B.A. }	<i>Tylerville, Conn.</i>	65 York sq.
Yale University 1886 }		
Edward VanIngen, PH.B. }	<i>New York City</i>	1024 Chapel st.
Yale University 1891 }		
George Stewart Walton, B.A. }	<i>Salem, O.</i>	225 Crown st.
Yale University 1891 }		
Philip Patterson Wells, B.A. }	<i>New Haven, Conn.</i>	77 W.
Yale University 1889 }		
James Parsons Woodruff, B.A. }	<i>Litchfield, Conn.</i>	83 Grove st.
Amherst College 1891 }		
Pierre Jay Wurts, PH.B. }	<i>New Haven, Ct.</i>	113 Whitney av.
Yale University 1891 }		
Brent Kelly Yates	<i>Hiawatha, Kansas</i>	65 York sq.
		JUNIORS, 78

SPECIAL STUDENTS

Eugene Bergeron, B.A. }	<i>New Haven, Conn.</i>	199 York st.
University of Paris 1869 }		
William Walter Heffelfinger, PH.B. }	<i>Minneapolis, Minn.</i>	1024 Chapel st.
Yale University 1891 }		
Stephen Arthur Krom	<i>Plainfield, N. J.</i>	373 Crown st.
John Potter	<i>Griswold, Conn.</i>	134 College st.
William Bull Pringle	<i>Oakland, Cal.</i>	127 College st.
Wetmore Worthley	<i>New York City</i>	31 High st.
		SPECIAL STUDENTS, 6

SUMMARY

GRADUATE STUDENTS,	.	.	.	.	.	15
SENIOR CLASS, .	.	.	.	.	.	56
JUNIOR CLASS, .	.	.	.	.	.	78
SPECIAL STUDENTS,	.	.	.	.	.	6
TOTAL,	.	.	.	.	.	155

SUMMARY OF STUDENTS

DEPARTMENT OF PHILOSOPHY AND THE ARTS:

GRADUATE COURSES	-	-	-	76	
YALE COLLEGE	-	-	-	888	
SHEFFIELD SCIENTIFIC SCHOOL			-	461	
ART SCHOOL	-	-	-	37	
				<hr/>	1462
YALE DIVINITY SCHOOL	-	-	-	-	122
YALE MEDICAL SCHOOL	-	-	-	-	74
YALE LAW SCHOOL	-	-	-	-	155
					<hr/>
					1813
Deduct for names inserted twice			-	29	
					<hr/>
TOTAL	-	-	-	-	1784

DEGREES CONFERRED IN 1891

BACHELOR OF ARTS

Edward Walter Abell	Samuel Colgate, Jr.
Hildreth James Ackroyd	Charles Parsons Cooley
George Irving Adams	William Russell Cone Corson
Thomas Gove Adams	John Joughin Cox
Alfred Lawrence Aiken	Frank Crawford
Matthias Charles Arnot	Harvey Williams Cushing
Grosvenor Atterbury	William Sage Dalzell
Gurdon Franklin Bailey	Edgar William Danner
Albert Ruggles Baker	Henry Murray Dater
Ernest Hickok Baldwin	Carroll Preston Davis
Cecil Kittredge Bancroft	Clarence Seward Davis
Albert Hampton Barclay	William Beach Dean
John Sanford Barnes, Jr.	Lyle Alexander Dickey
James Foote Barnett	Frank Ayer Dillingham
Walter Alden Barrows	John Wesley Doane, Jr.
William Tenney Bartley	Edward Payson Drew
Frank Sheridan Benninghoff	Henry Dunnell
Louis Frederic Holbrook Betts	Louis Cazenove duPont
David Lane Billings	Richard Bancker Duyckinck, Jr.
William Edward Billings	Charles Russell Ely
Walter Kissam Birdsall	Joe Garner Estill
Frank Sanford Blair	James Eugene Farmer
James Kingsley Blake	Parnell Ellis Fisher
Elijah George Boardman	Russell Kennedy Forsyth
John Alden Bovey	Raymond Hilliard Gage
Joseph Bowden, Jr.	Nathan Glicksman
William Lewis Bradley	DeForest Grant
George Stephenson Brewster	Frederic William Grau
James Wallace Broatch	William Phillips Graves
Charles Marshall Brown	Ashbel Green, Jr.
Francis Theodore Brown	Paul Ecoff Greer
John Henry Buck	Franklin Underwood Gregory
John Lee Bunce	Hippolyte Washington Gruener
Curtis Clark Bushnell	Thomas Hackett Guy
Gouverneur Calhoun	Edwin Victor Hale
Charles Gibbs Carter	Charles Howard Hall
Ernest Chadwick	Lewis Carroll Hall
Starling Winston Childs	Lane Schofield Hart
Alfred Mainwaring Coats	Theodore Stuart Hart
Duane Phillips Cobb	Perry Williams Harvey

George Pickard Hawkes
 Joseph Eugene Hedges
 George Henry Hefflon
 Joseph Rogers Herod
 William Thurston Hincks
 George Walter Hodges
 Herbert Wolcott Holcomb
 Louis Lawton Hopkins
 Gerard Beekman Hoppin
 Edward Franklin Horr
 Hampton Pierson Howell
 Charles Prentice Howland
 Jas. Coleman Ford Huntington
 Robert Palmer Huntington, Jr.
 Francis deLacey Hyde
 Leland Ingersoll
 Charles Samuel Ingham
 James Monfort Irvin
 Edward Swift Isham, Jr.
 Stuart Dodge Jessup
 Sherman Skinner Jewett, 2d
 Frederick Morgan Johnson
 Vertner Kenerson
 Edward Learned Kernochan
 Frederick Strong Kimball
 Howard Thayer Kingsbury
 Lewis Taylor Knox
 Howard LaField
 Albert Lee
 William Josiah Leverett
 Theodore Nelson Lillagore
 Joseph Potts Lloyd, Jr.
 Edward Nathaniel Loomis
 Archibald John Fred. McBean
 Norman McClintock
 Walter McClintock
 Robert Gardner McClung
 Malcolm MacLear
 Edward Augustus Manice
 Charles Capron Marsh
 Arthur Marvin
 Lafayette Benedict Mendel
 William Revell Moody
 Samuel Wylie Black Moorhead

Richard Bartholomew Moriarty
 Samuel Benjamin Morison
 Sherman Morse
 Wallace Simon Moyle
 Winthrop Sargent Gilman Noyes
 Frank Richard Oastler
 Harry Leroy Pangborn
 Amasa Junius Parker, Jr.
 Willis Nathaniel Parker
 Charles Orrin Penfield
 John Franklin Plummer, Jr.
 Robert Watson Pomeroy
 William Frederick Poole, Jr.
 Albert Merriman Reed
 Adelbert Lee Reynolds
 William Castle Rhodes
 James Richardson
 George Phelps Robbins
 Allan Gold Robinson
 William Drown Rorer
 Arthur Benedict Russell
 Erastus Dean Ryder
 Francis Williams Sacket
 William Henry St. John
 Daniel Seales, Jr.
 John Barry Sears
 Ira Emanuel Seidle, B.A. }
 Muhlenberg College 1890 }
 Samuel Carter Shaw
 Henry King Sheldon, Jr.
 Edward Francis Simms
 William Erskine Simms, Jr.
 Hubbard Taylor Simpson
 Francis Louis Slade
 Clement Grubb Smith
 George Ferguson Smith
 Herbert Knox Smith
 Ray Burdick Smith
 George Howard Street
 Egerton Swartwout
 George Sherman Talcott
 Daniel Gleason Tenney
 William Nevin Thatcher
 Samuel Clifton Thompson

Edward Allen Thurber
 John Quillin Tilson
 John Barnes Townsend
 Luther Henry Tucker, Jr.
 Harry Hallam Tweedy
 Clifford Gray Twombly
 Horace Garfield Waite
 Frederic Collin Walcott
 Leonard Eugene Wales, Jr.

George Stewart Walton
 Hanford Smith Weed
 Archibald Ashley Welch
 Henry Crofut White
 Frederick Harrison Williams
 Henry Lane Williams
 Charles Strong Witbeck
 Glen Wright
 Ira Platt Younglove

MASTERS OF ARTS

Louis Shepard DeForest, B.A. }	James Richard Joy, B.A. }
Yale University 1879 }	Yale University 1885 }
Joseph Ralph Ensign, B.A. }	George Washington Patterson, B.A. }
Yale University 1889 }	Yale University 1884 }
Eugene Wendell Harter, B.A. }	Arthur Griffin Stedman, B.A. }
Yale University 1888 }	Yale University 1881 }
Franklin Whetstone Hopkins, B.A. }	Ambrose Tighe, B.A. }
Yale University 1880 }	Yale University 1879 }
William Henry Upton, B.A. }	
Yale University 1877 }	

BACHELORS OF PHILOSOPHY

William Adams, Jr.	Wyatt Collier Estes
Frederick Max Adler	George Chandler Forrest
Harris Walton Baker	Albert Francke
Willis James Black	Frank Hamilton Funk
Burton Dickinson Blair	Edward Everett Gates
Arthur Eli Booth	Willis Blake Goodwin
Joseph Douglas Brown	Henry Whitmore Gregory
Sterling Haight Bunnell	Lewis Winters Gunkel
Brown Caldwell	David Alexander Hays
DeLancey Allen Cameron	Walter William Heffelfinger
Robert Hanna Carnahan	Edwin Guy Helm
Henry Albert Carpenter	John Williamson Herron, Jr.
Francis Allen Clark	Robert Gibson Hilton
Noyes Dwight Clark	Robert Massonneau Hoffman
Robert Lewis Coleman	Thomas Osborn Horton
Lehman Adams Cooper	Robert Schuttler Hotz
Benedict Crowell	David Lynde Huntington
Homer Stille Cummings	Milton Cleaveland Isbell
Laurence Andrew Dodsworth	Frederick William Jones, Jr.
Robert Metcalf Dodsworth	Elliott Proctor Joslin, B.A. }
Frederick James Easterbrook	Yale University 1890 }
George Sherwood Eddy	George Coburn Kohler

Augustus Frederick Kountze
 George Marcellus Landers, Jr.
 Clifford Walter Leavenworth
 Daniel Alden Loring, Jr.
 Charles Nassau Lowrie
 George Eldredge McClellan
 David Magie Meeker
 George Wylie Mercer
 Harral Mulliken
 Gustave Munzesheimer
 John Stevens Murdock
 Warren Bynner Nash
 John Colwell Neale
 Nathaniel Read Norton
 Stanley Hawken Pearce
 Arthur Chapin Pease
 William Horace Pelton
 George Nathaniel Prentiss
 Walter Gray Preston
 Milton Holley Robbins
 Eugene Boutelle Sanger
 Ennis Newton Searles
 John David Shattuck

Harry Hudson Shepard
 George Monroe Sidenberg
 William Alexander Simms
 George Milton Smith
 Thomas Cullen Bryant Snell
 Lewis Edwards Sparrow
 George Pratt Starkweather
 George Fetter Stickney
 Charles Ferris Sturtevant
 Edward Owen Sutton
 Issa Tanimura
 Amasa Trowbridge
 Edward VanIngen
 Clark Greenwood Voorhees
 Arvine Wales
 William Ernest Walker
 Edward Young Ware
 Robert Karl Wehner, Jr.
 Rudolph Michael Weyerhaeuser
 Henry Wick, Jr.
 Aras James Williams
 Charles Morgan Wood
 Pierre Jay Wurts

CIVIL ENGINEERS

Charles Addison Ferry, PH.B. {	Boynton Wells McFarland, PH.B. }
Yale University 1871 }	Yale University 1890 }
William Conquest Tucker, PH.B. }	
Yale University 1888 }	

DOCTORS OF PHILOSOPHY

Frank Frost Abbott, B.A. {	Olaus Dahl, B.A. }
Yale University 1882 }	Luther College 1885, }
Herbert Austin Aikins, B.A. {	B.D. Yale University 1889 }
University of Toronto 1887 }	
Lester Bradner, Jr., B.A. {	George William Davis, }
Yale University 1889 }	Owens College, England, 1880 }
Edward Capps, B.A. {	Carl Elofson, B.A. }
Illinois College 1887 }	Augustana College 1888 }
Frederick Lincoln Chase, B.A. {	Oliver Cummings Farrington, M.S. }
University of Colorado 1886 }	Maine State College 1888 }
Clarke Eugene Crandall, M.A. {	Irving Fisher, B.A. }
Milton College 1886 }	Yale University 1888 }

William Griffiths, B.D. }	Ernest Ellsworth Smith, PH.B. }
Yale University 1889 }	Yale University 1888 }
Charles Foster Kent, B.A. }	Percy Franklin Smith, PH.B. }
Yale University 1889 }	Yale University 1888 }
Frederic William Mar, B.A. }	James TenBroeke, B.A. }
Yale University 1888 }	Middlebury College 1884 }
William Lyon Phelps, B.A. }	Wilbert Webster White, M.A. }
Yale University 1887 }	Wooster University 1884 }
Daniel Shepardson, Jr., B.A. }	Kichiro Yuasa, B.D. }
Denison University 1888 }	Oberlin College 1888 }

BACHELORS OF DIVINITY

Joseph Marion Adams, M.A. }	Edward Augustus George, M.A. }
DePauw University 1889 }	Yale University 1888 }
George Page Anderson, B.A. }	William Clark Gordon, B.A. }
Whitman College 1886 }	Yale University 1888 }
Jacob Cornelius Bergmans	Harvey Bartlett Greene
Claus Alfred Bergström, B.A. }	Joseph Wallace Gunn, B.A. }
Brown University 1888 }	Carleton College 1886 }
Edward Ernest Bradley, B.A. }	Tasuku Harada
Williams College 1885 }	Dorr Albert Hudson, B.A. }
George Atwood Brock, B.A. }	Yale University 1888 }
Harvard University 1888 }	George Merriam Hyde, B.A. }
Albert Shepard Bromer, B.S. }	Amherst College 1888 }
Ursinus College 1888 }	George Henry Jackson
Harvey Safford Bush, B.A. }	David Lyman Kebbe, B.A. }
University of Michigan 1888 }	Amherst College 1888 }
Chester Merrit Clark, B.A. }	Allen Alonzo Keene, B.A. }
Knox College 1886 }	Amherst College 1887 }
James Romeyn Danforth, Jr., B.A. }	Arthur Mitchell Little, B.A. }
Amherst College 1888 }	Yale University 1889 }
Arthur Ernest Davies	John Mortimer Lydgate, B.A. }
Elmer Addison Dent, PH.B. }	University of Toronto 1880 }
University of Ohio 1888 }	Edward Lester Marsh, B.A. }
Calvin Ursinus Olevianus Derr, B.A. }	Amherst College 1888 }
Ursinus College 1888 }	Frederick Howard Means, B.A. }
Charles Hatfield Dickerson, B.A. }	Harvard University 1888 }
Oberlin College 1889 }	Frederick Warren Oakes, B.A. }
Edward Colton Fellowes, B.A. }	Bates College 1888 }
Yale University 1888 }	Harry Ernest Peabody, B.A. }
Mosheim Ross Fishburn, M.A. }	Harvard University 1887 }
Pennsylvania College 1890 }	Edgar Allen Potts, M.A. }
Fenwick Williams Fraser, M.A. }	Randolph-Macon College 1885 }
St. Francis Xavier's College 1889 }	Frederick Bates Richards, M.A. }
Thomas Arthur Frey, B.A. }	Amherst College 1888 }
Roanoke College 1888 }	

George Samuel Richards	Clyde Weber Votaw, B.A. }
Frederick Cowles Taylor, B.A. }	Amherst College 1888 }
Amherst College 1884 }	Samuel Weyler, B.A. }
Willard Brown Thorp, B.A. }	Knox College 1888 }
Amherst College 1887 }	Elbridge Cutler Whiting, B.A. }
Arthur Clarence Townsend, B.A. }	Amherst College 1888 }
Bates College 1888 }	Benson Newell Wyman, B.A. }
	Oberlin College 1886 }

DOCTORS OF MEDICINE

Frank Judson Bardwell	Reuben Arthur Lockhart, <i>cum laude</i>
John Steele Barnes	James Henry McInerny
Edward Lydston Bliss, B.A. }	Paul Skiff Robinson, P.H.B. }
Yale University 1887, <i>cum laude</i> }	Yale University 1889 }
Frederick Oscar Chamberlain, }	Shiukichi Shigemi, P.H.B. }
B.L. and B.S. Paris 1888 }	Yale University 1888 }
Harry Alfred Elcock	Clarence Edward Skinner
Henry Floyd Gamble, B.A. }	Richard Ward Westbrook, <i>cum laude</i>
Lincoln University 1888 }	George Herbert Williams, M.R.C.S. }
Charles Winthrop Hartwell	London 1883 }
Samuel Wellington Irving	

BACHELORS OF LAWS

George W. Adams	Porter Beach Godard, B.A. }
George Woodburn Andrew	Yale University 1889 }
George Leslie Armstrong	Frank Edwin Hawkes
Orren William Bates, B.A. }	George Edwin Hill, B.A. }
Haverford College 1884 }	Yale University 1887 }
Charles Patrick Bohan	John Aaron Hooper, <i>cum laude</i>
Joseph Patrick Brennan	Samuel Stone Hotchkiss
Stephen Brophy	Paul Robinson Jarboe
Reuben Louis Cates	Percy Lincoln Johnson, P.H.B. }
Benjamin Hynes Charles, Jr., B.A. }	Wesleyan University 1889 }
Westminster College 1885 }	Sukehide Kabayama
Henry Graham Crocker	George Aaron Kellogg, B.A. }
Thomas Mitchell Cullinan, B.A. }	Amherst College 1889, <i>cum laude</i> }
Yale University 1889 }	Albert James Kenyon
William Henry Davies	Robert Jacob Lewis
George Henry Ennis	William Mitchell Lewis
Fitz Daniel Ermentrout	John Wesley Lutz
Edward James Gavegan, B.A. }	Henry Hokixina Lyman
Yale University 1889 }	Robert Hughes McCreary, B.A. }
	Central Univ. of Kentucky 1888 }

William Koontz Meyers	John Wilber Roby, <i>cum laude</i>
Richard White Miller, B.A. } Central Univ. of Kentucky 1888 }	Frederick Andrew Scott, B.A. } Yale University 1889, <i>cum laude</i> }
Robert Douglas Millholland	James Robert Seeley, B.A. }
Joseph Richard Morgan, PH.B. } Butler University 1889 }	Yale University 1888 }
Frederick Eli Mygatt	James Madison Self, B.A. } College of Montana 1889 }
Roger Samuel Newell	Corwin Sheridan Shank
Burton Louis Newton	Charles Hitchcock Sherrill, Jr., B.A. } Yale University 1889 }
Allen Penfield Nichols	William Harrison Stafford
Wallace Olmstead	Albert Brodie Stone, B.A. }
Frank Lee Owen, PH.B. } Yale University 1889 }	University of Michigan 1889 }
Israel Hyman Peres, B.A. }	Charles Edwin Thorn
Yale University 1889, <i>cum laude</i> }	Susumu Uchida
William Hollis Pond	Harry Mighel Verrill, PH.B. }
Hyacinthe Archibald Ringrose	Yale University 1889 }

MASTERS OF LAWS

Albert McClellan Mathewson, LL.B. Yale University 1884
 William Wallace Phelps, LL.B. University of Michigan 1890

DOCTOR OF CIVIL LAW

Sabura Koya, M.L. Yale University 1890

BACHELOR OF FINE ARTS

Josephine Miles Lewis

HONORARY DEGREES :

DOCTORS OF DIVINITY

Rev. Professor Edward Lewis Curtis, B.A. Yale University 1874
 Rt. Rev. Thomas Frederick Davies, B.A. Yale University 1853
 Rev. James Stalker, M.A. University of Edinburgh 1869

DOCTORS OF LAWS

Hon. James Madison Barker, B.A. } Williams College 1860 }	Rev. Henry Augustus Coit, D.D. } Trinity College 1863 }
Justice David Josiah Brewer, B.A. } Yale University 1856 }	Hon. Anthony Higgins, B.A. } Yale University 1861 }
Justice Henry Billings Brown, B.A. } Yale University 1856 }	Hon. John Willock Noble, B.A. } Yale University 1851 }

MASTERS OF ARTS

Edward Bement	Cyrus LaRue Munson, LL.B. }
Morris Ketcham Jesup	Yale University 1875 }
Robert Underwood Johnson	Hiram Sterling Pomeroy . }
William James Linton	Gould Abijah Shelton, M.D. }
James Stetson Metcalfe	Yale University 1869 }

APPOINTMENTS FOR COMMENCEMENT,

YALE COLLEGE, JUNE 29, 1891

ORATIONS

NATHAN GLICKSMAN

JOHN JOUGHIN COX

CLIFFORD GRAY TWOMBLY	WILLIAM NEVIN THATCHER
WILLIAM TENNEY BARTLEY	HIPPOLYTE W. GRUENER
CURTIS CLARK BUSHNELL	RAY BURDICK SMITH
JOSEPH BOWDEN, JR.	LAFAYETTE BENEDICT MENDEL
HOWARD THAYER KINGSBURY	GROSVENOR ATTERBURY

Cecil Kittredge Bancroft	Edward Nathaniel Loomis
Francis Theodore Brown	Harry Leroy Pangborn
Duane Phillips Cobb	Samuel Carter Shaw
Frank Crawford	Francis Louis Slade
Edward Payson Drew	Herbert Knox Smith
Joe Garner Estill	Luther Henry Tucker
Raymond Hilliard Gage	Harry Hallam Tweedy
Charles Prentice Howland	

George Irving Adams	William Phillips Graves
Charles Marshall Brown	Theodore Stuart Hart
Harvey Williams Cushing	Robert Gardner McClung
Edgar William Danner	James Richardson
Lyle Alexander Dickey	Erastus Dean Ryder
Frank Ayer Dillingham	Edward Allen Thurber
Charles Russell Ely	

DISSERTATIONS

Starling Winston Childs	Winthrop Sargent Gilman Noyes
Edward Learned Kernochan	Ererton Swartwout
Arthur Marvin	George Sherman Talcott

DISPUTES

Hildreth James Ackroyd	William Josiah Leverett
Ernest Hickok Baldwin	Archibald John Fred. McBean
Frank Sanford Blair	Charles Capron Marsh
Henry Murray Dater	Richard Bartholomew Moriarty
Henry Dunnell	Wallace Simon Moyle
Joseph Eugene Hedges	Clement Grubb Smith
George Walter Hodges	John Quillin Tilson
Herbert Wolcott Holcomb	George Stewart Walton
Howard LaField	Henry Crofut White

James Foote Barnett
 William Lewis Bradley
 John Henry Buck
 Clarence Seward Davis
 Paul Ecoff Greer
 Charles Howard Hall
 Charles Samuel Ingham
 Vertner Kenerson

Theodore Nelson Lillagore
 Frank Richard Oastler
 John Franklin Plummer, Jr.
 Albert Merriman Reed
 William Drown Rorer
 Samuel Clifton Thompson
 Frederic Collin Walcott

COLLOQUIES

Edward Walter Abell
 Matthias Charles Arnot
 Thomas Gove Adams
 Gurdon Franklin Bailey
 Frank Sheridan Benninghoff
 James Wallace Broatch
 Charles Gibbs Carter
 William Russell Cone Corson
 Richard Bancker Duyckinck, Jr.
 Ashbel Green, Jr.
 Franklin Underwood Gregory
 Lewis Carroll Hall
 Lane Schofield Hart
 George Henry Hefflon

Joseph Rogers Herod
 Louis Lawton Hopkins
 Edward Franklin Horr
 Sherman Skinner Jewett
 Norman McClintock
 Walter McClintock
 Willis Nathaniel Parker
 William Frederick Poole, Jr.
 Francis Williams Sacket
 William Henry St. John
 George Ferguson Smith
 Leonard Eugene Wales
 Frederick Harrison Williams
 Henry Lane Williams

Alfred Lawrence Aiken
 John Sanford Barnes, Jr.
 James Kingsley Blake
 John Alden Bovey
 George Stephenson Brewster
 John Lee Bunce
 Harry Tristram Ferris
 Russell Kennedy Forsyth
 Frederic William Grau
 Gerard Beekman Hoppin
 Hampton Pierson Howell
 Leland Ingersoll
 Stuart Dodge Jessup
 Lewis Taylor Knox

Malcolm MacLear
 William Revell Moody
 Samuel Wylie Black Moorhead
 Sherman Morse
 Charles Orrin Penfield
 Adelbert Lee Reynolds
 George Phelps Robbins
 Arthur Benedict Russell
 Edward Francis Simms
 William Erskine Simms
 Hubbard Taylor Simpson
 Daniel Gleason Tenney
 John Barnes Townsend
 Hanford Smith Weed

HONORS IN SPECIAL STUDIES

TWO-YEAR HONORS

In Political Science, History, Law :

Nathan Glicksman
 Edward Nathaniel Loomis
 Charles Capron Marsh
 Lafayette Benedict Mendel
 Samuel Carter Shaw
 Ray Burdick Smith
 William Nevin Thatcher

In Ancient Languages :
 Curtis Clark Bushnell*In Modern Languages :*

Howard LaField
 Harry LeRoy Pangborn

In Natural and Physical Science :

Hippolyte W. Gruener
 Theodore Stuart Hart

In Mathematics :

Joseph Bowden, Jr.

ONE-YEAR HONORS

In Philosophy :

Cecil Kittredge Bancroft
Harry LeRoy Pangborn

In Political Science, History, Law :

Grosvenor Atterbury
Joe Garner Estill
Raymond Hilliard Gage
Charles Prentice Howland
Robert Gardner McClung
George Phelps Robbins
William Drown Rorer
Herbert Knox Smith
Harry Hallam Tweedy
George Stewart Walton

In Ancient Languages :

Edward Payson Drew

In Modern Languages :

William Tenney Bartley
Clarence Seward Davis
James Richardson

In English :

Hildreth James Ackroyd
George Irving Adams
Francis Theodore Brown
Howard Thayer Kingsbury
Ray Burdick Smith

In Natural and Physical Science :

Edgar William Danner
Clement Grubb Smith

JUNIOR APPOINTMENTS.

YALE COLLEGE, MARCH 19, 1891

PHILOSOPHICAL ORATIONS

BERNARD MELZAR ALLEN
WILLIAM BRADFORD BOSLEY
PERCY FINLAY
JAMES W. D. INGERSOLL
WILLIAM LLOYD KITCHEL
ELLIOTT MARSHALL
ALFRED BARNES PALMER

ORATIONS

Fred Clark Gallup Bronson
Clive Hart Day
George Herbert Girty
Henry Barrett Hinckley
Matthew Ambrose Reynolds

Isaac Woodbridge Riley
Charles Augustus Schumaker
Charles Brown Sears
James Everett Wheeler

Harry Allen Grant Abbe
Arthur Seth Barnes
Charles Joseph Bartlett
George Wetmore Colles, Jr.
James Stevens Darcy
Otis Harrison Fisk
Hiram Fobes
Arthur Merwin Marsh
Abraham Meyer

Ernest Boyd Millard
James Albert Moore
Frank Burton Otis
Charles Peabody Pierce
William Goodsell Rockefeller
Frank Wright Seymour
Augustus Farnham Shaw
Herbert Anson Stocking
Albert Lavine Whittaker

DISSERTATIONS

Benjamin Latham Armstrong	John Inglee Phinney
Edward Boltwood	Horace Tracy Pitkin
Arthur Stone Brackett	Edward Stevens Sanborn
Henry Solon Graves	Emanuel Frank Snyderacker
Ferdinand Albert Häuslein	Walter Ralph Steiner
Harry Winters Luce	Junius Wheeler
George Redington Montgomery	Clarence Cicero Wilson

DISPUTES

Clarence Willis Austin	Frederick Wallis Hinkle
Howard Morton Biscoe	George Buell Hollister
Frederic Courtney Bishop	Frank Arthur Keller
Herbert Ovid Bowers	Henry Buehler McCormick
Knight Dexter Cheney, Jr.	William Messick
Richard Storrs Colton	Thornwell Mullally
Arthur Louis Day	Lewis Rathbone Parker
Percy Coe Eggleston	Warren Gookin Waterman
Merrill Williams Gallaway	Charles Lawson Wooding
Charles Sherman Haight	William Burnet Wright, Jr.

Howell Cheney	Arthur Franklin Lewis
Wilbur Parkhurst Fish	Arthur Lovell
Everett Dwight Francis	Charles Dennis Morris
Henry Saunders Haskell	Harlan Henry Taintor
William Stockbridge Haskell	John Knox Tibbitts
Charles Revell Holden	Abram Case Williams
Burton Page Hollister	Frank Tobey Winslow
Harry Howell Kennedy	John Sticher Woodruff
Sidney Locock Lasell	

COLLOQUIES

Edward Clarence Bissell	Edward Buffett Mowbray
Stanley Gano Burt	Allen Cromwell Orrick
Albert Grant Dingley	Frank Julian Price
Richard Gardner Eaton	Frederick Deming Tucker
Paul Klimpke	Ralph Richard Upton
Francis Miner Moody	Henry Goodwin Webster
Robert Wallis Morris	

George Sherwin Clarke Badger	Pierre Jay
Walter Phelps Bliss	Elliot Grant Johnson
Oliver Hart Bronson	John Frederick Lorange
George Lawton Coit	Cloyd North McAllister
Edward Howard Dodd	David Raphael O'Donnell
Francis Hayt Griffin	Norman Clark Whittemore

UNDERGRADUATE SCHOLARS OF THE HOUSE, YALE
COLLEGE, FOR 1891-92:

WOOLSEY Scholar, Class of 1892—JAMES W. D. INGERSOLL.

WATERMAN Scholars, Class of 1892—JAMES W. D. INGERSOLL, THORN-
WELL MULLALLY.

SCOTT HURTT Scholar, Class of 1892—JOHN I. PHINNEY.
WOOLSEY Scholar, Class of 1893—WINTHROP E. DWIGHT.
WATERMAN Scholar, Class of 1893—WILLIAM R. BEGG.
SCOTT HURTT Scholar, Class of 1893—ALTON W. PEIRCE.
WOOLSEY Scholar, Class of 1894—HENRY S. DAWSON, JR.
HURLBUT Scholar, Class of 1894—GEORGE F. VAN SLYCK.
THIRD FRESHMAN Scholar, Class of 1894—FRANK H. CHASE.

UNIVERSITY PRIZES, AWARDED IN 1891 :

JOHN A. PORTER Prize—Ray Burdick Smith, of the Senior Class in the
Academical Department.

Committee of Award : Charles L. Atterbury, Esq., of New York City ;
Henry C. White, Esq., of New Haven ;
Mr. Irving Fisher, of New Haven.

COBDEN CLUB Medal, Class of 1891—Nathan Glicksman, of the Academ-
ical Department.

PRIZE of \$50, for the best Entrance Examination of candidates from
Alleghany County, Pa., in the two Undergraduate Departments
(offered by the Yale Alumni Association of Pittsburgh)—divided
between Alexander Byers, Jr., of the Sheffield Scientific School,
and John B. Speer, of the Academical Department.

PRIZES AWARDED IN THE ACADEMICAL DEPARTMENT,
1890-91 :

DEFOREST Prize Medal, Class of 1891—Howard T. Kingsbury.

TOWNSEND Premiums, Class of 1891—Grosvenor Atterbury, Edward N.
Loomis, Herbert K. Smith, Ray B. Smith, Luther H. Tucker.

DEFOREST MATHEMATICAL Prizes—Class of 1891, 1st Senior Prize,
Joseph Bowden, Jr. Class of 1892, 1st Prize, George W. Colles,
Jr.; 2d Prize, George R. Montgomery; 3d Prize, Clarence C.
Wilson; Class of 1893, 1st Prize, Wendell M. Strong; 2d Prize,
divided between William Begg and Howard D. Day; 3d Prize,
divided between Charles H. Ewing and Logan Hay. Class of
1894, 1st Prizes, Howard A. Lamprey, George F. VanSlyck; 2d
Prizes, Henry S. Dawson, Jr., John H. Goss; 3d Prizes, Martin
L. Beeler, Sarkis C. Kebabian, William E. Thoms, James D.
Williams.

LUCIUS F. ROBINSON Latin Prizes, for Classes of 1891 and 1892—1st
Prize, William T. Bartley, Class of 1891; 2d Prize, Richard B.
Moriarty, Class of 1891. For Class of 1893—1st Prize, William
R. Begg; 2d Prize, Arthur L. Wheeler; 3d Prize, John D. War-
nock.

- SCOTT Prize in German, Class of 1891—Harry L. Pangborn. In French, Class of 1892—Merrill W. Gallaway.
- WINTHROP Prizes, Class of 1892—1st Prize, James W. D. Ingersoll; 2d Prize, divided between Bernard M. Allen and Henry B. Hinckley.
- HENRY JAMES TENEYCK Prizes (for the Junior Exhibition), Class of 1892—1st Prize, Alfred B. Palmer; 2d Prizes, Hugh A. Bayne, Percy C. Eggleston, Wilbur P. Fish, Henry M. Kidd, Thornwell Mullally, Henry R. Rathbone, Emanuel F. Snyder.
- C. WYLLYS BETTS Prize (for English Composition), Class of 1893—Winthrop E. Dwight.
- ELOCUTION Prizes, Class of 1893—In Reading, Charles H. Ewing; in Speaking, Homer T. Joy, Edwin R. Lamson.
- BERKELEY Premiums, Class of 1894—1st Grade, Frank H. Chase, Thomas W. Gosling, Robert H. Nichols, Charles G. Osgood, Jr., Leonard B. Smith, George F. VanSlyck; 2d Grade, Samuel S. Allen, Henry S. Dawson, Jr., Frederick M. DeForest, Frederick Dwight, Ernest Knaebel, James H. Taylor, William E. Thoms.
- HUGH CHAMBERLAIN Greek Prize, Class of 1895—Divided between Edward C. Jones, from the New Haven High School, and William M. Richards, from the Hopkins Grammar School, New Haven; with honorable mention of George D. Kellogg, from the Central High School, St. Louis, Tracy Peck, Jr., from the New Haven High School, and Alburn E. Skinner, from Phillips Academy, Andover, Mass.

PRIZES AWARDED IN THE SHEFFIELD SCIENTIFIC SCHOOL, JUNE, 1891:

Class of 1891:

- FOR EXCELLENCE IN CIVIL ENGINEERING—Noyes D. Clark, with honorable mention of Burton D. Blair.
- FOR EXCELLENCE IN MECHANICAL ENGINEERING—George P. Starkweather, with honorable mention of David L. Huntington.
- PRIZE ESSAY IN THE COURSE IN MILITARY SCIENCE—George S. Eddy.
- FOR EXCELLENCE IN THE COURSE IN MILITARY SCIENCE—Honorable mention is made of Willis J. Black, George M. Landers, Jr., and P. Jay Wurts; and also of Albert R. Baker and William T. Bartley, of the Senior Class in the Academical Department.

Class of 1892:

- FOR EXCELLENCE IN MATHEMATICS OF JUNIOR YEAR—Samuel A. Harsh, with honorable mention of Francis M. Adams, Sherman H. Bouton, Gustave E. Huttelmaier, and Theophilus Nelson.

FOR EXCELLENCE IN GERMAN—The Prize divided between Samuel A. Harsh and Gustave E. Huttelmaier, with honorable mention of Charles M. Williams.

Class of 1893:

FOR EXCELLENCE IN ALL THE STUDIES OF FRESHMAN YEAR—The Prize divided between Roger C. Adams, James L. deVou, and William T. H. Howe, with honorable mention of Alexander J. Campbell, Hughes Dayton, and John W. Coe.

FOR EXCELLENCE IN PHYSICS—Alexander J. Campbell, with honorable mention of James L. deVou and William T. H. Howe.

FOR EXCELLENCE IN GERMAN—The Prize divided between Roger C. Adams, Hughes Dayton, James L. deVou, and William T. H. Howe.

FOR EXCELLENCE IN CHEMISTRY—The Prize divided between Roger C. Adams, John W. Coe, Hughes Dayton, William T. H. Howe, and Samuel W. McCaulley; with honorable mention of William R. Johnston, for advanced work in Chemistry.

FOR EXCELLENCE IN MATHEMATICS—Alexander J. Campbell, with honorable mention of Roger C. Adams and Frank A. Little.

FOR EXCELLENCE IN MECHANICAL DRAWING—The Prize divided between Frederick L. Ford and Frank A. Little, with honorable mention of Charles A. Ingersoll and Henry H. Murray.

HONORS IN THE MEDICAL SCHOOL, JUNE, 1891:

CAMPBELL GOLD MEDAL—Richard W. Westbrook, with honorable mention of Edward L. Bliss, B.A.

DEGREE OF M.D. *cum laude*—Richard W. Westbrook; Edward L. Bliss, B.A.; Reuben A. Lockhart.

KEESE PRIZE—Divided between Reuben A. Lockhart and Clarence E. Skinner.

OBSTETRICAL PRIZE—Charles W. Hartwell.

PRIZES AWARDED IN THE LAW SCHOOL, JUNE, 1891:

TOWNSEND PRIZE, Class of 1891—George E. Hill, B.A.

Committee of Award: Hon. Asa French, Boston, Mass.;

Enos N. Taft, Esq., New York City;

Charles H. Clark, Esq., Hartford, Conn.

JEWELL PRIZE, Class of 1891—John W. Roby.

O. S. SEYMOUR PRIZE, Class of 1891—George W. Andrew.

BETTS PRIZE, Class of 1892—Divided between William A. McQuaid, B.A.,
and Robert T. Platt, B.A.

MUNSON PRIZE, Class of 1891—Divided between Edward J. Gavegan,
B.A., and John W. Roby.

Committee of Award : Hon. Samuel O. Prentice, Hartford, Conn.;
E. P. Arvine, Esq., New Haven, Conn.;
James H. Webb, Esq., New Haven, Conn.

HONORS:

SENIOR CLASS :

Degree of LL.B., *cum laude*

John W. Roby, John A. Hooper, George A. Kellogg, B.A., Israel H.
Peres, B.A., Frederick A. Scott, B.A.

JUNIOR CLASS :

William A. McQuaid, B.A., Robert T. Platt, B.A., William P. Aiken, B.A.,
John F. Carpenter, John J. Healey, Herbert A. Hill, B.A., Samuel
A. York, Jr., B.A.

DIRECTORY OF OFFICERS

ADAMS, ARTHUR B., Assistant 170 St. John st.	CAMERON, A. GUYOT, Ass't Prof. 18 Trumbull st.
ADAMS, GEORGE B., Professor (244 L.) 77 Elm st.	CAMPBELL, JAMES, Professor Hartford
ALEXANDER, ARTHUR C., Assistant 145 College st.	CAPPS, EDWARD, Tutor 58 s. m.
AMERMAN, GEORGE L., Assistant 137 Wall st.	CARMALT, WM. H., Professor 87 Elm st.
ANDREW, GEORGE W., Assistant 19 Court House	CARRINGTON, H. DEW., Instructor 199 York st.
BAILEY, MARK, Instructor (150 F.) 442 Temple st.	CHASE, FREDERICK L., Assistant Observatory
BALDWIN, SIMEON E., Professor (25 White's B'ld'g.) 44 Wall st.	CHITTENDEN, RUSSELL H., Prof. (63 B.) 83 Trumbull st.
BARNEY, SAMUEL E., Instructor 346 Whitney av.	CLAPP, EDWARD B., Asst. Professor 135 College st.
BEACH, FREDERIC E., Assistant 44 Lyon st.	CLARK, JOHN E., Professor (40 N. S. H.) 30 Trumbull st.
BEEBE, WILLIAM, Ass't. Professor 83 Wall st.	COLLIER, M. DWIGHT, Lecturer N. Y. City
BEECHER, CHARLES E., Instructor (9 P.) 14 S. H.	COMSTOCK, WILLIAM J., Instructor 43 Trumbull st.
BEERS, HENRY A., Professor (171 F.) West Haven	COOK, ALBERT S., Professor 139 Elm st.
BERGERON, EUGÈNE, Instructor 199 York st.	CURTIS, EDWARD L., Professor (7 E.) 219 Whalley av.
BLISS, EDWARD L., Assistant 371 Crown st.	DAHL, OLAUS, Instructor 1010 Chapel st.
BRASTOW, LEWIS O., Professor (3 E.) 128 Wall st.	DANA, EDWARD S., Professor (4 P.) 111 Grove st.
BREWER, WM. H., Professor (4 S. H.) 418 Orange st.	DANA, JAMES D., Professor (6 P.) 24 Hillhouse av.
BROWN, ROBERT, Secretary Observatory pl.	DAY, GEORGE E., Dean (5 E.) 125 College st.
BROWNING, PHILIP E., Assistant (Kent Lab'y.) 115 Howe st.	DEXTER, FRANKLIN B., Secretary (Library) 178 Prospect st.
BRUSH, GEORGE J., Professor (3 S. H.) 14 Trumbull st.	DILLON, JOHN F., Lecturer N. Y. City.
BUTLER, GEORGE H., Clerk (5 TR.) 98 Howe st.	DUBOIS, A. JAY, Professor (34 N. S. H.) 258 Bradley st.

DUNCAN, GEORGE M., Instructor 28 York sq.	HASTINGS, CHARLES S., Professor (39 N. S. H.) 191 Bradley st.
DUTCHER, JUDSON S., Tutor 21 s.	HATCHER, JOHN B., Assistant 9 P.
DWIGHT, TIMOTHY, President (7 TR.) 126 College st.	HOPPIN, JAMES M., Professor (12 Art School) 47 Hillhouse av.
EATON, DANIEL C., Professor (76 B.) 70 Sachem st.	HOTCHKISS, FRANK E., Sup't. 90 High st.
ELKIN, WM. L., Astronomer 477 Prospect st.	HUNT, W. IRVING, Tutor (118 N.) 12 University pl.
FAIRBAIRN, ANDREW M., Lecturer Oxford, England	HUTCHINS, ANNIE E., Assistant (Library) 29 Home pl.
FARNAM, HENRY W., Professor 43 Hillhouse av.	JACOBSON, FRITZ, Lecturer 149 St. John st.
FARNAM, WILLIAM W., Treasurer (5 TR.) 335 Prospect st.	JOHNSON, SAMUEL W., Professor 54 Trumbull st.
FERRIS, HARRY B., Instructor 111 York st.	KITCHEL, CORNELIUS L., Instructor 331 Temple st.
FISHER, GEORGE P., Professor (9 E.) 27 Hillhouse av.	KNAPP, HOWARD H., Lecturer Bridgeport
FISHER, IRVING, Tutor 119 Park st.	KNAPP, WM. I., Professor (202 D.) 135 Whitney av.
FLEISCHNER, HENRY, Lecturer 928 Grand av.	LADD, GEORGE T., Professor (276 L.) 204 Prospect st.
FOOTE, CHARLES J., Demonstrator 305 Howard av.	LINDSLEY, CHAS. A., Professor 15 Elm st.
FOSTER, JOHN P. C., Instructor 109 College st.	LOCKWOOD, EDWIN H., Instructor (57 N. S. H.) 145 College st.
FOSTER, ROGER, Lecturer N.Y. City	LOOMIS, DWIGHT, Instructor Rockville
FROTHINGHAM, LANGLON, Assistant 71 B.	LOUNSBURY, THOS. R., Professor 22 Lincoln st.
GIBBS, J. WILLARD, Professor (Sloane Lab'y.) 121 High st.	LUSK, GRAHAM, Instructor 28 Elm st.
GOOCH, FRANK A., Professor (Kent Lab'y.) 388 Whitney av.	MCLAUGHLIN, E. T., Ass't. Prof. 267 L.
GOODELL, THOMAS D., Ass't. Prof. 284 Orange st.	MARSH, OTHNIEL C., Professor (8 P.) 360 Prospect st.
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